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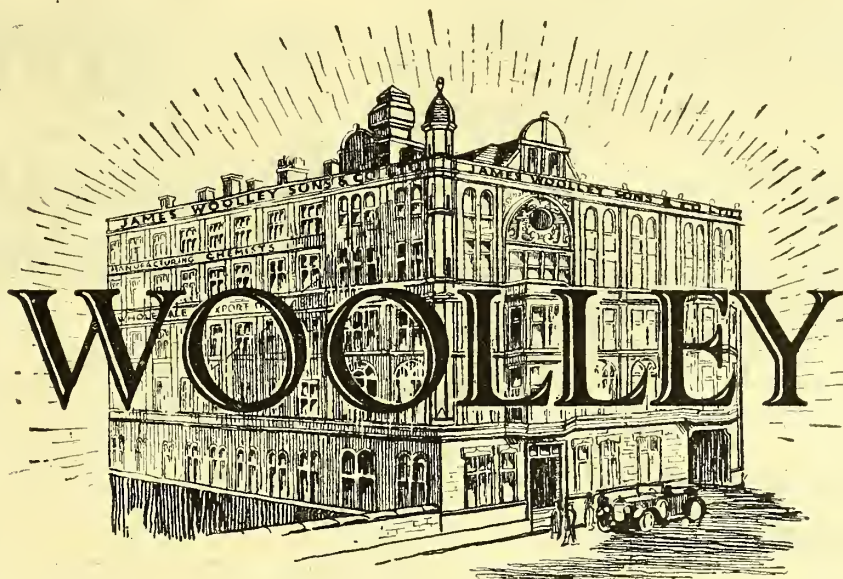
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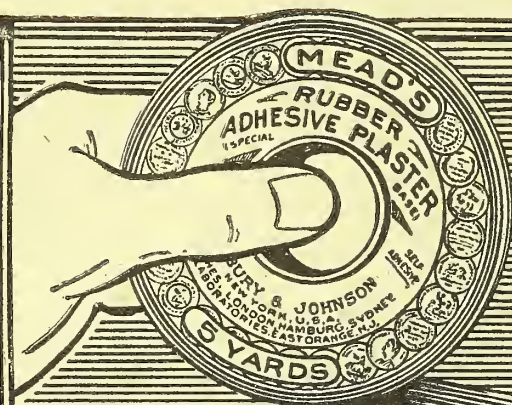
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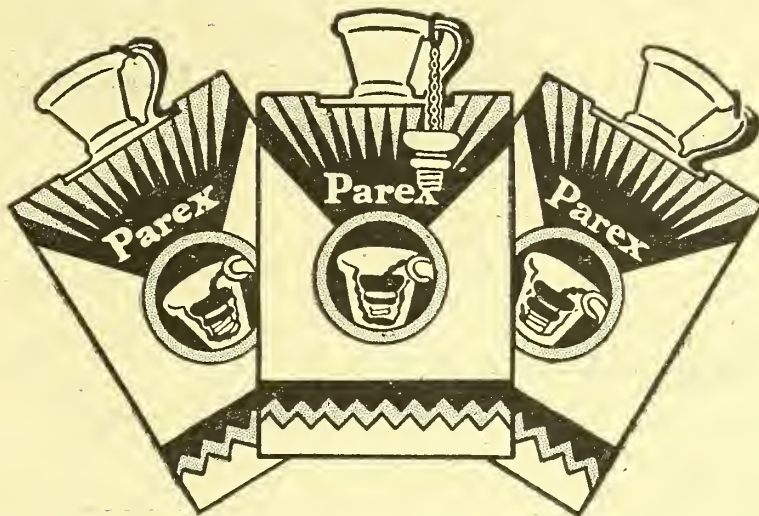
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Maw's



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*Samples & Quotations  
for Bulk quantities  
on request.*

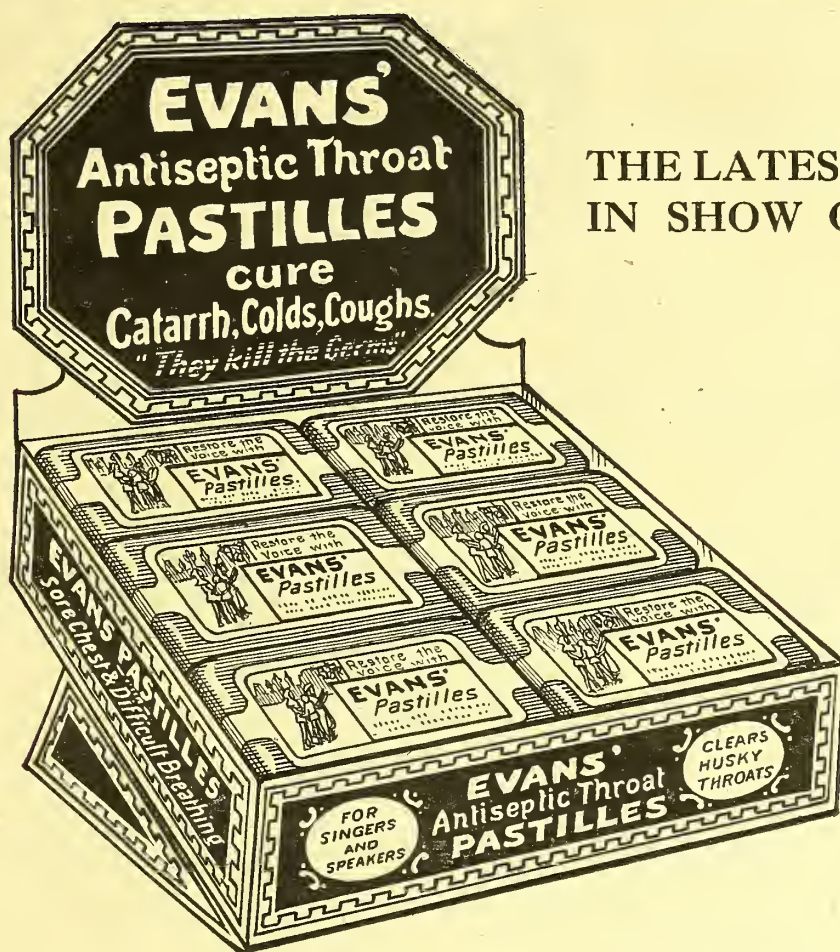


*Also  
Price List of Retail  
Package Goods.*

**ARMOUR AND COMPANY**  
LIMITED

QUEEN'S HOUSE, KINGSWAY,  
LONDON, W.C.2.





THE LATEST THING  
IN SHOW OUTERS!

The Public Press Advertising in the National and Provincial Dailies commenced this week, and has been doubled in its intensity.

Our Representative will explain to you our special Bonus terms and show you the new Artistic "Outer" illustrated above.

**EVANS'** ANTISEPTIC  
THROAT  
*Pastilles* 1/3

11/3 per doz.

THE PRACTICAL WAY TO



INCREASE BRITISH TRADE

MANUFACTURERS  
**Show *your* Goods**  
 at the  
**British Industries  
 FAIR**

**The Trade Buyers will be there**

ORGANISED BY H.M. DEPARTMENT OF OVERSEAS TRADE AND HELD AT  
**LONDON & BIRMINGHAM - FEBRUARY 15-26 1926**

H.M. Department of Overseas Trade is making greater efforts than ever to bring buyers from every corner of the world to The British Industries Fair at London and Birmingham next February. Every British Firm who wants more export business should take immediate advantage of this great opportunity. Make *your* arrangements *now*.

**Schedule of Exhibits  
 LONDON**

(White City).

Musical Instruments —  
 Furniture and Basket-  
 ware — Sports Goods,  
 Toys, etc. — Jewellery,  
 Silverware, Cutlery, etc.  
 — Scientific and Photo-  
 graphic Goods — Chemi-  
 cals and Drugs — Station-  
 ery and Printing —  
 Fancy Goods — Travel-  
 ling Requisites, etc. —  
 Brushware — China,  
 Earthenware, Stoneware  
 and Glassware — Food-  
 stuffs and Beverages —  
 Fancy Leather Goods,  
 Leather, etc. — Clothing  
 and Allied Trades.

**T**HE greater variety of goods you show at the Fair, the larger will be the orders you will book. Space will be lower in price than ever before. More than 100,000 square feet of space has already been taken. It is essential, therefore, that you should arrange for *your* space at once.

*For full particulars address:*

**H.M. DEPARTMENT of OVERSEAS TRADE**  
**35, Old Queen Street, London, S.W.1,**  
 or **The Secretary,**  
**CHAMBER OF COMMERCE, BIRMINGHAM**

**Schedule of Exhibits  
 BIRMINGHAM**

(Exhibition Buildings,  
 Castle Bromwich).

Brassfoundry, Hardware  
 and Ironmongery —  
 Metals — Construction,  
 Building and Decoration  
 — Power, Lighting, Heat-  
 ing, Cooking and Venti-  
 lating — Engineering in all  
 Branches — Agricultural  
 Machinery — Mining Ap-  
 pliances — Motors, Motor  
 Cycles, Cycle Acces-  
 sories, Perambulators —  
 Guns, Saddlery and Har-  
 ness — Fishing Tackle —  
 Brewing and Distilling  
 Appliances.





## Drip . . Drip . . Drip . .

**I**T never stops. In time the stone is worn away by the ceaseless dripping—millions and millions of little blows, the one making the other effective.

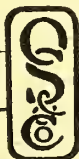
“Roboleine” advertising is like that. It matters not whether there is a heat wave or an icy blast from the Steppes: you will **ALWAYS** see “Roboleine” being kept in front of the people in the national dailies and high-class weeklies. Nothing pays like re-iteration of **FACTS** about a good product, and that is why

# Roboleine

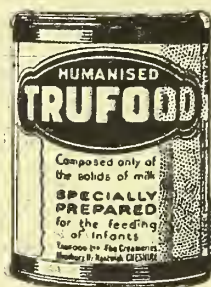
THE FOOD THAT BUILDS THE BODY

advertising never stops, Winter or Summer.

**OPPENHEIMER, SON & COMPANY LTD.**  
179 Queen Victoria Street, London E.C. 4.



O &amp; S



# From Chemists only

What it means to both of us.

We believe that the supply of food for babies is as important as the supply of medicines for babies and that the sale of both is the legitimate province of pharmacists—and the pharmacists only. *On our belief we act.*

In every press announcement in the big campaign now being launched—in every piece of medical propaganda and literature

issued by us—definite stress is laid upon the fact that supplies of Trufood can *only be obtained from chemists.*

We are actually refusing profitable business to uphold our policy and safeguard our mutual interests.

Even beyond this spirit of co-operation, however, there are two vital reasons why Trufood merits your closest attention:

1. Humanised Trufood of all the infant foods you stock is the *only* rational alternative to breast feeding.
2. The fact that physicians, *convinced beyond doubt* of the intrinsic value of Trufood, are persistently prescribing it.

Put in a stock and make the new display material your link with our advertising. Supplies on request.

HUMANISED  
**TRUFOOD**

*Nearest to Mother's Milk*

TRUFOOD, LIMITED, The Creameries,  
Wrenbury, Nr. Nantwich, Cheshire.



# A Silent Salesman of proved value

SINCE its introduction only a year ago over 1,000 Chemists have adopted this ingenious aid to sales. We send it free of cost and carriage paid, with orders for 6 dozen "Ivory" Lozenge tins.

☪ In addition to the popular varieties Catarrh, Bronchial, and Peppermint, IODISED THROAT is now available and may be substituted as desired.

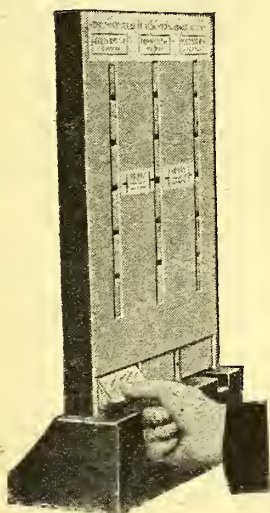


The Free Kerfoot Lozenge Stand - - Front

☪ The Free Kerfoot "Ivory" Tin Lozenge Stand is strongly made of wood and leather-board covered with imitation wood-veneer and with the display matter lithographed in red and green. The stand takes only 14" x 6" counter space and is 21½" high.

☪ The smaller photo shows the method of withdrawing the tins and also the ingenious details of the back of the cabinet—the narrow slits through which the chemist can see at a glance the number of tins in the stand, the duplicate title slips which prevent the wrong tin being withdrawn, and the safety line which ensures that the stand will always appear full from the front of the counter. Incidentally this stand solves the problem of a pilfer-proof counter display.

Trade Prices : 9d. tins (P.A.T.A.) 5/6 dozen ;  
6 dozen lots, 5/3 dozen.



Back View of Stand

THOMAS KERFOOT & CO. LTD.  
BARDSLEY VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1797

D/181



# Schimmel & Co.

MILTITZ, near LEIPZIG.

Manufacturers of

## ESSENTIAL OILS, ESSENCES & AROMATIC CHEMICALS

Speciality :  
**FIXORESIN**

*A fixing Agent for  
Soap Perfumes and Extractions.*

*In Various Aromas.*

SAMPLES ON APPLICATION.

PEPPERMINT OIL, B.P.  
SAVIN OIL  
PINE OIL  
SAFROL  
BENZALDEHYDE, F.F.C.  
FLORAL OILS  
ESSENCES FOR LIQUEURS  
FRUIT ESSENCES, etc.

SOLE AGENTS FOR THE U.K.

FREDK. BOEHM LTD., 15/17 Jewry St., LONDON, E.C.3

Established 1795.

## LAUTIER FILS

Works : GRASSE (France) & BEYRUT (Syria).

Essential Oils — Synthetics.  
All Raw Materials for Perfumery.

Absinth	Laurel
Almond, bitter,	Lavender
Angelica [S.A.P.]	Lemon
Basil	Mace
Bay	Melissa
Bergamot	Neroli big and Syn.
Bols de Rose femelle	Orange
Cajuput	Otto de Rose
Cinnamon	Patchouli
Cloves	Peppermint
Copalba	Rosemary
Costus	Rue
Cubeb	Sandalwood
Fennel	Spike Lavender
Geranium	Tansy
Honey	Tarragon
Hyssop	Thyme
	Vetivert

Olive, Peach Kernel, Sweet Almond Oils  
Floral Waters.

Wholesale and Export only.

LAUTIER FILS, Ltd., 4 Denman St., London Bdg., S.E.1  
Tel. Add.: "LAUTIER, PHONE LONDON." Telephone: HO 2819.



Write for Price List

## PHILLI-MIRANO Ltd.

*Manufacturing Perfumers for  
the Home and Export Trades*

GROTON RD., LONDON, S.W.18

Every variety of Perfumery and  
Toilet Goods packed under Custom-  
er's Private Brand if required.

**SPECIALITIES:**

ALENTA HAIR CREAM  
ALENTA PERMANENT WAVE LOTION  
RHODORA LAIT-DE-LYS  
RHODORA CREAMED FACE POWDER  
RHODORA DOUBLE COMPACT  
POWDERS  
RHODORA COMPACT POWDERS  
BATH PREPARATIONS





# CALIFORNIA

Is celebrated for its

## ORANGE

Groves and the Exquisite Flavour of its fruit. It is not to be wondered at, therefore, that the

## OIL

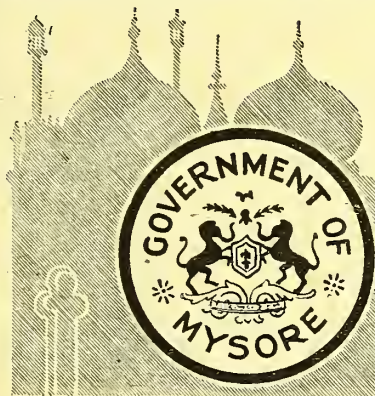
from these fruits has a DISTINCTIVE and TRUE

## ORANGE FLAVOUR

The price is equally attractive. You can prove it if you will ask your Dealer.

Wholesale Distributors for  
THE EXCHANGE ORANGE PRODUCTS CO.  
CALIFORNIA

WHEELER & HUISKING Ltd.  
26/27 GREAT TOWER STREET, E.C.3



*Mysore Government Seal  
is your guarantee that  
the Oil is the finest in  
the World*

## EAST INDIAN SANDALWOOD OIL

Sole European Distributors:

ESSENFLOUR PRODUCTS LTD.

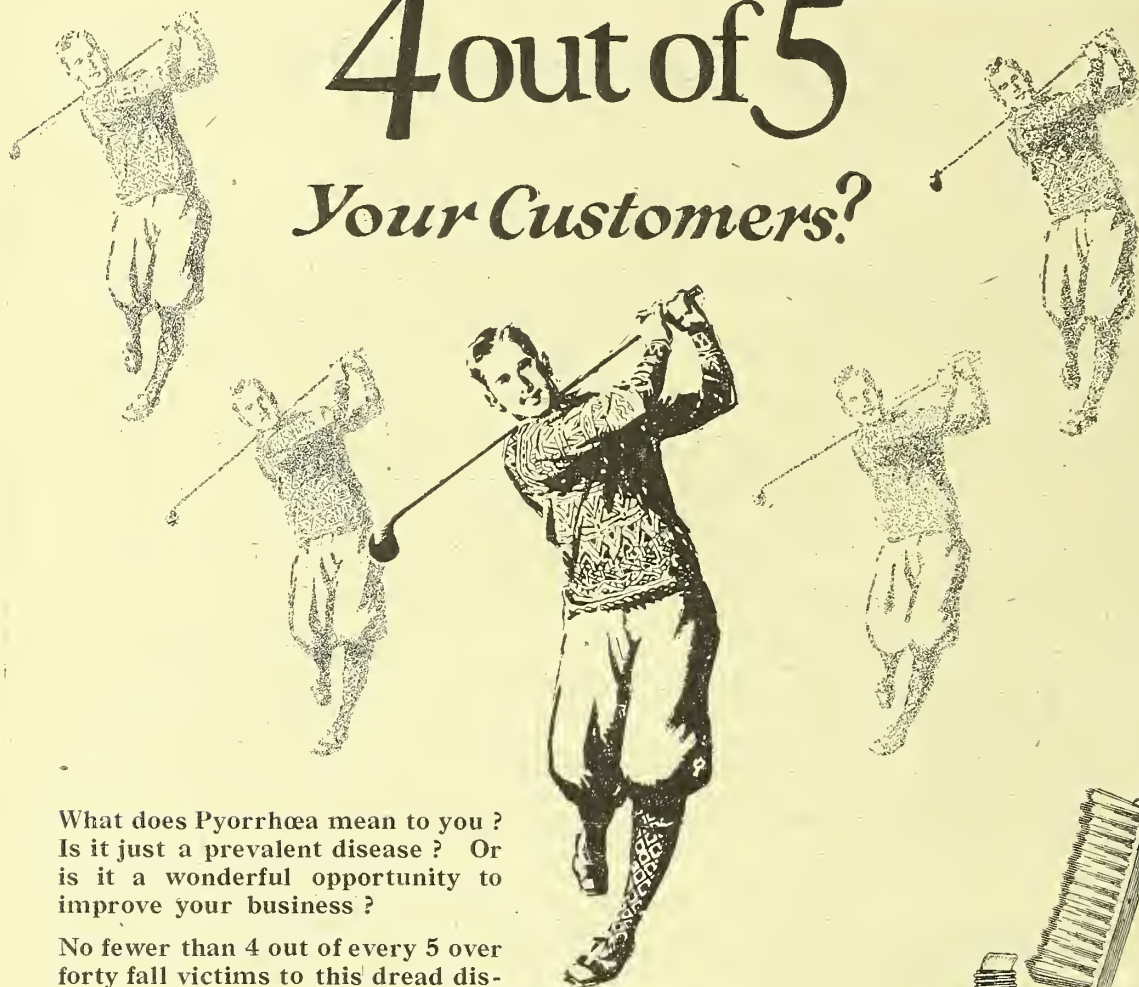
"Perfume House" 6, 7 & 8 BEAUCHAMP STREET, LONDON, E.C.1

Telephone: HOLBORN 2499, 6214, 6215 (3 lines).

Telegrams: "EKDUM, LONDON."

# 4 out of 5

## *Your Customers?*



What does Pyorrhœa mean to you ?  
Is it just a prevalent disease ? Or  
is it a wonderful opportunity to  
improve your business ?

No fewer than 4 out of every 5 over  
forty fall victims to this dread dis-  
ease; many thousands younger, too.

Every one of them is a customer for the  
enterprising pharmacist ! For it is the  
pharmacist alone who sells Forhan's For  
the Gums—the one sure preventive.

Are you helping your 4 out of every 5 to  
fight Pyorrhœa ? A showcard in your window  
reminds them that they have a remedy :  
*that you sell it.*

Abundant, never-ceasing sales and repeats  
await those who display Forhan's For the  
Gums. And the showcard is free on request.

# Forhan's

---

## FOR THE GUMS



THOS. CHRISTY & CO.  
4 12 Old Swan Lane,  
London, E.C.4.





The colour scheme is unique and dignified. Worthy of a front place on your counter. "Frozoclone" has been often imitated, but never equalled.

3/6 size, 32/- doz.  
1/10 " 16/- "  
Special Terms for Export.

## Have you obtained this Striking Show Box yet?

**FREE** with orders of 1 doz. large or 1/2 doz. each size from your Wholesale House.  
On application to us direct, boxes will be sent free of charge, post free.



21/- doz. The Luscious Laxative. 2/3 P.A.T.A.



The Nail Polish with new and distinctive features.

15/- doz. 1/9 P.A.T.A.

# R. Demuth's Laboratories

68 SALUSBURY ROAD,  
& MONTROSE AVENUE,  
LONDON, N.W.6.



# DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

## Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
<b>PILENTA SOAP</b> .. .. .	10/-	1/-
A complexion soap.		
<b>PROLACTUM</b> .. .. .	10/-	1/-
For the lips.		
<b>PARSIDIUM JELLY</b> .. .. .	10/-	1/-
For wrinkles.		
<b>ALLACITE OF ORANGE BLOSSOM</b> .. .. .	22/6	2/6
A dressing cream.		
<b>BORANIUM</b> .. .. .	22/6	2/6
A hair tonic.		
<b>CLEMINITE</b> .. .. .	22/6	2/6
For a face lotion.		
<b>COLLIANDUM</b> .. .. .	22/6	2/6
For a face tint.		
<b>PERGOL</b> .. .. .	22/6	2/6
A deodorant.		
<b>TEKKO PASTE</b> .. .. .	22/6	2/6
Camphor cream.		
<b>STALLAX</b> .. .. .	{ 13/6 22/6	1/6 2/6
For a shampoo.		
<b>JETTALINE</b> .. .. .	31/6	3/6
For clearing the skin.		
<b>PHEMINOL</b> .. .. .	36/-	4/-
A depilatory.		
<b>MENNALINE</b> .. .. .	36/-	4/-
For the eyelashes.		
<b>MERCOLIZED WAX</b> .. .. .	{ 18/- 31/6	2/- 3/6
A face cream.		
<b>STYMOL</b> .. .. .	36/-	4/-
For oily complexions and blackheads.		
<b>SILMERINE</b> .. .. .	22/6	2/6
Hair-curling fluid.		
<b>BARSYDE</b> .. .. .	22/6	2/6
Dandruff eradicator.		
<b>TAMMALITE</b> .. .. .	22/6	2/6
For grey and faded hair.		
<b>LIQUID PERGOL</b> .. .. .	31/6	3/6
To check excessive perspiration locally.		
<b>BICROLIUM</b> .. .. .	22/6	2/6
For whitening the hands.		
<b>COCONOIDS</b> .. .. .	31/6	3/6
For figure development.		

### The Products of

Messrs. PARKER, BELMONT & CO.

<b>CLYNOL BERRIES</b> .. .. .	{ 36/- 58/6	4/- 6/6
For obesity.		
<b>SOFT PALERIUM</b> .. .. .	45/-	5/-
For wrinkles.		
<b>LIQUID NAIL POLISH</b> .. .. .	10/-	1/-
Brilliant and lasting.		

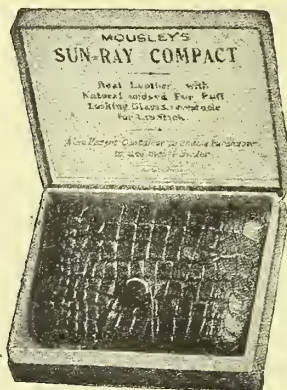
Stocked by ALL Wholesale Houses.

### COLONIAL DEPÔTS AND AGENCIES.

Australia: ALL WHOLESALE, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.  
 South Africa: LENNON, Ltd., Cape Town, etc.  
 SIVE BROS. & KARNOVSKY, Johannesburg.  
 India: FRAMJEE & SON, Bombay.  
 A. I. CHOUDRY, Calcutta.  
 New Zealand: SHARLAND & CO., Auckland and Wellington.  
 South America: DEARBORN (South America) Ltd., Calle Pávon 2100, Buenos Aires.  
 Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

## MOUSLEY'S SUN-RAY COMPACT

REAL LEATHER WITH NATURAL UNDYED FUR.



Envelope, containing  
sufficient of the

**NEW  
MOUSLEY'S  
SUN-RAY  
POWDER**

to fill container  
supplied free.

Made at the  
"Beaverpuf" Works.

With same  
Guarantee of Quality.

**MOUSLEY'S SUN-RAY COMPACTS 3/6 each.**

Each packed in a Superior and Attractive Box.

**MOUSLEY'S SUN-RAY LIP STICKS 1/3 each.**

Mousley's Patent Powder Puffs have the  
**LARGEST SALE IN THE WORLD.**

From all Wholesalers or Direct.

**BEAVERPUF LIMITED**

Priest Bridge, Mortlake, London, S.W.14

**Hitch your  
waggon  
to a**



Chemists and Druggists who have definite progress  
to report are those who have profited by the ever-  
growing demand for Gibbs Toilet Preparations.

Each succeeding year shows an upward bound  
in sales. And every advance is supported by an  
increased volume of advertising, which again  
still further increases sales.

Greatly increased advertising—greatly increased  
sales. Result—greatly increased profits.

Stock—Display and Sell—



**Gibbs**

**TOILET PREPARATIONS**

D. & W. GIBBS LTD. (Dept. D.G.1)  
CITY SOAP WORKS, LONDON, E.1



## JANUARY 1926

*WE take this opportunity of thanking our friends for their support during the past twelve months, and of wishing them a **HAPPY AND PROSPEROUS NEW YEAR.***

# POTTER & MOORE'S 1749 MITCHAM LAVENDER SOAP

A perfectly milled, delicately perfumed Luxury Soap!



Note the beautiful creamy lather in use, and the strong fragrant Lavender odour which the Soap imparts to the skin of the user.



*Prices on application.*

In addition to the Toilet Tablets depicted above, Bath Tablets, Visitors' Tablets and Combination Cases of Soap :: and Lavender Water can also be obtained from ::

**POTTER & MOORE, The Lavender Distillery, Mitcham, Surrey**  
(Makers of the world-famous 1749 Mitcham Lavender Water)

*Sole Proprietors:*

**W. J. BUSH & CO. Ltd., Ash Grove, Hackney, London, E.8**

*Sole Wholesale Scottish Agents for Articles of Perfumery:*

**Messrs. MUNRO, M'LAREN & SUTHERLAND, GLASGOW**



AN  
"All-the-Year-Round"  
LINE.

*Spurway's*  
**LEMON  
CREAM**  
FOR THE HANDS.

A non-greasy cream which has a wonderful effect in softening and whitening the hands.

*A Valuable Preventative  
of Chilblains.*

It is exquisitely perfumed and leaves a delightful aroma on the hands.

Artistically packed in dainty 4-oz. frosted bottles, fitted with glass-top corks.

1 doz. lots - 12/- per doz.  
3 " " - 11/- " "

*Handsome show-cards sent with  
each consignment.*

**SPURWAY ET CIE, LTD.**

**89 Great Eastern Street,  
LONDON :: :: E.C.2.**

**CANNES-GRASSE, RIVIERA,  
PARIS.**

**LEIPSIC NEW YORK  
KINGSTON (ONTARIO)**

Telegrams  
Telephone

"NEROLI, LONDON,"  
- BISHOPSGATE 1372.



THE ORIGINAL  
:: AND ::  
STILL THE BEST

**JACKEL'S  
CREAM**  
WITHOUT GREASE  
FOR THE HAIR

SOLD EVERYWHERE.

**1/9 PER BOTTLE 2/6**

Jackel's Cream has now been over 40 years on the market and enjoys a steady reliable sale. Once a customer buys Jackel's, imitations have no appeal because Jackel's is still the best.

**HOW ARE YOUR STOCKS AT PRESENT?**

12/- and 18/- per dozen.  
Retailing at 1/9 & 2/6 per bot.

SHOWCARDS AND PARTICULARS FROM  
YOUR WHOLESALE HOUSE.

**JACKEL et CIE (of Paris) Ld.**  
GLASGOW.

*Dorin L.* 41 Charterhouse Sq., E.C.1

are advertising to the Public

"ROUGE BRUNETTE"

(P.A.T.A.)

"UN AIR DE PARIS"

"CREME ECLALYS"

(Offering Free Samples).

Our discounts leave you a liberal profit.  
Prepare your stock to answer the demand.

Delivery from Stock.

Telephone: Central 1954

**GALJADO HAIR COLOUR RESTORER**

**For Grey or Faded Hair.**

A preparation which sells on its merits. Non-injurious.

In two sizes:

Retail: 2/- and 3/6 per bottle.

Trade: 12/- and 22/- per dozen.

TRIAL DOZEN SENT POST FREE.

Cash with order.

Note the Profit.

Of all Wholesalers or direct.

**THE GALJADO PERFUMERY CO. Ltd.**

93 Worship Street, London, E.C.2.







# ARMAND

## THEY ALL LIKE ARMAND

"I have found your face powder most exquisite."—Miss —, Bournemouth.

"I like the powder immensely and am recommending it to all my friends."—Miss —, Painswick, Glos.

"Your Cold Cream Powder excels any other powder that I have yet tried."—Miss —, Stoke-on-Trent.

"I have tried your Armand Cold Cream Powder and I prefer it to all other powders I have used."—Miss —, Norwich.

"I have just started using your Cold Cream, and really must say I am delighted. I shall certainly recommend your preparations to all my friends."—Miss —, Reading.

"I consider that the Armand Powder, Vanishing Cream and Cold Cream are far superior to any preparations of this description that I have previously used, and I shall certainly make them my future choice and recommend them to my friends on every possible occasion."—Miss —, Bristol.

A FEW OF THE EXPRESSIONS OF  
APPRECIATION RECENTLY RECEIVED.

ARE YOU GETTING YOUR SHARE  
OF THIS PROFITABLE BUSINESS?

Send for Price List, COUNTER CARDS, LEAFLETS and particulars of our  
DIRECT Advertising.

*Florian & Armand Ltd.,  
Queensway, Ponders End,  
Middlesex*

QUALITY  
and  
PROFIT



# A "FURSAC" SOLD—A "FURSAC" TRIED

ANOTHER USER  
SATISFIED

**"FURSAC"** Registered. Patent applied for.

*The Finest Powder  
Puff in the World.*

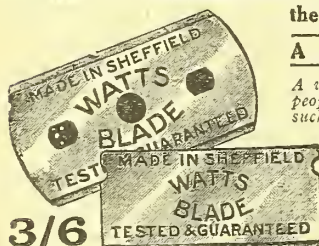
From all Druggists' Sundriesmen, or direct from

## FLETCHER SQUIRES & CO.

Phone: Riverside 3110.

70 GOLDHAWK ROAD, W.12.

Assist British industry by recommending the  
'WATTS' Sheffield-made Safety Razor Blade,  
the blade of super-keenness.



**3/6**

per doz.  
allowing  
50% PROFIT  
on cost for  
the dealer.

Sole Manufacturers: **JOHN WATTS,**  
Dept. 3, LAMBERT WORKS, SHEFFIELD.  
London: 24, REDCROSS ST., E.C.1.  
*Established over 750 years.*

A counter display will help.

A user writes: "Can't understand  
people buying foreign blades when  
such as yours are obtainable."

**12 Perfect Blades  
in Every Dozen**

For Gillette-Type and  
Austrotype-type holders

## SELECTED PROFITABLE LINES INCREASE YOUR SALES NOW

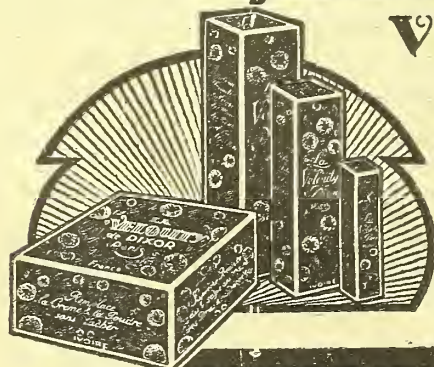
*Just a few of our Lines for Chemists*

Genuine Gillette Safety Razors, complete with a U.S.A. Blade. Packed each in a carton...	9/- Doz.
Genuine U.S.A. Gillette Blades ...	26.6 Box
Tooth Brushes, No. 19940, Col. Cell. Handle	3/- Doz.
Prophylactic Tooth Brushes, Trans. Col. or White Bone Handles, Bent Shape ...	9/- Doz.

Large Assortment of Manicure Sets,  
Tooth Brushes, Shaving Brushes, Clocks

List free on application. Carriage extra. Cash-with order.

**L. FRANKENBERG,** AVENUE 1170, 8846  
125 HOUNDSDITCH, LONDON, E.1  
Phones:



## VELOURTY de DIXOR PARIS .. COMBINED CREAM AND POWDER

The advertised line that you are asked for  
**DAINTY PRESENTATION**

Samples free upon receipt of tradecard or billhead

Prices:—Full size pot 21/- doz.	Retail .. .. 2/9
Super Tube 22/- "	" .. .. 3/-
Large " 14/- "	" .. .. 2/-
Handbag " 3/- "	" .. .. 6d.

Made in three shades: WHITE, IVORY and NATURAL

Obtainable from your regular Wholesaler or direct from the Sole British Agents:  
**DEBACQ & HARROP, 68 Newman Street, Oxford Street, LONDON, W.1**



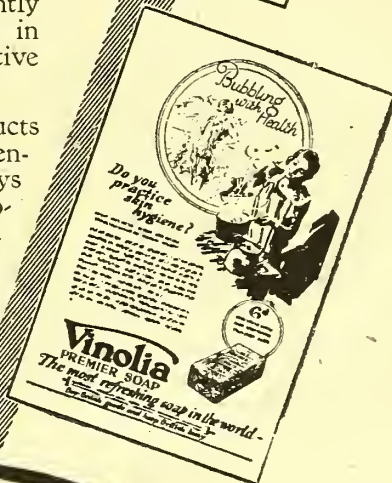
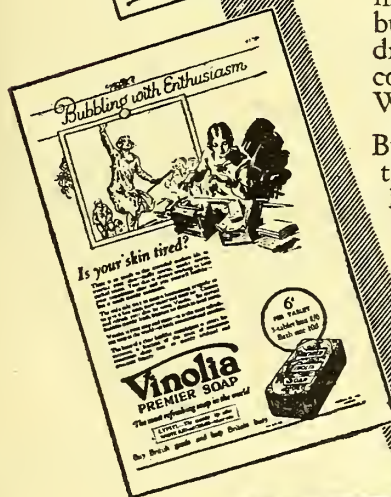


Showcard No. 5.

## Buy British

At this season we look forward with new interest and renewed courage to the possibilities of the coming year. The showcard illustrated above will mean new business for you if prominently displayed as a centrepiece in conjunction with our attractive Wedgwood packs.

Business in quality products that creates goodwill and enhances prestige is always worth having. Write to-day for current list and special offers; because they are British made, British owned, of the finest quality, and really profitable, show and recommend



# Vinolia

## TOILET PRODUCTS

VINOLIA CO. LTD., BLACKFRIARS, LONDON, E.C.4.  
LABORATORIES, BEBINGTON, CHESHIRE.



# The World's Best Hairbrush

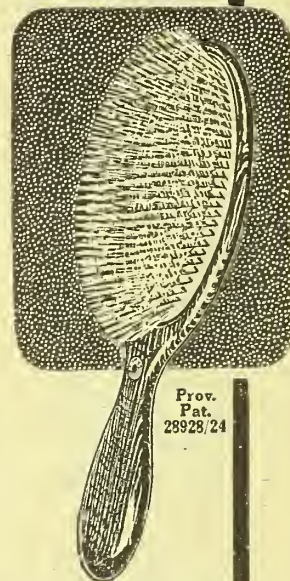
## means quicker sales and bigger profits for you

Why? Because it has more selling points than any other brush in the world. Because it meets to a greater degree than all others the modern woman's need for deep, penetrating hairbrushing plus **absolute cleanliness**.

Consider for a moment the strength and toughness of the bristles and the resiliency of the rubber pad in which they are set. Is there any other brush more capable of getting right down to the roots of the hair than the "Klenly" Brush? Consider also the tempting beauty of the various colours and designs.

And this is not all. Both the bristles and the pneumatic pad are **white**. Because of this the brush is always kept clean; its whiteness instantly betrays any dirt or dust that may come from the hair. The air vent, too, is placed in such a position that it's the easiest thing in the world to clean the brush.

These then are the reasons why **you** should stock the "Klenly" Hairbrush—why you should take **your** share of the extra-generous margin of profit that we as the **actual manufacturers** can afford to allow you.



Prov.  
Pat.  
25928/24

# RIGBY'S Klenly HAIR BRUSH

RIGBY, BATCOCK, LTD., 28 MUSEUM STREET, LONDON, W.C.2.

Protected in U.S.A., CANADA and FRANCE.

Write at once for special folder giving full details and prices of the various designs and see for yourself what attractive opportunities the "Klenly" Brush affords for profitable business.

## U.S.A. GILLETTE BLADES

1 box 23/6 3 boxes 26/- box.

**RAZORS.** "Challenge" (2/6) 19/- doz.; 3 doz. @ 18/-  
5/- Series @ 28/- doz.

**VALET** "99" 2/6 Razors, 22/- doz.; 3 doz., 61/6  
Blades, 36/- box. Strops, 20/- doz. 6/- C Model Razors, 48/- doz.

THE NEW 7/6 RAZOR, 5/3 each.

## EVER-READY BLADES

28/6 gross (1/2-gr. 14/6) 31/6 gross, with 24 Razors (1/2-gr. 16/6)

New Wall Cabinets 2/- Sets, 16/6 doz., 3 doz. for 46/9. **MONKEY STROPS** 3/9 each  
Pinand's Hongroise 4/- doz. Coty's, Honbigan, L. T. Piver's Face Powders stocked,  
Rouge DORIN, etc.

Our own line of Shaving Brushes. English made, unbreakable handle, each packed in carton, 3 sizes, 18/-; 22/6; 28/- doz.

Send for List. Goods post paid. Terms Nett.

**ALFRED FRANKS & CO., 23, Bartlett's Buildings, HOLBORN CIRCUS, LONDON, E.C.** Telephone: Holborn 4760.

## CHAMOIS. SPONGES.

HOUSEMAIDS' GLOVES.  
CHAMOIS PADS.  
Send for Price List  
**John T. Barradell,** 23, Blackfriars Street, Manchester.  
Phone: Manchester Central 2785. Wires: Sponges, Manchester

Those First Grey Hairs appear just  
← here  
Touch them up with  
**TATCHO-TONE** Post Free  
Medical Guaranty with bottle. Chemists Prices 2/6 & 4/6 or direct to the Tatcho-Tone Co., 5, Gt. Queen St., W.C.2

## PROPHYLACTIC

In the Orange Carton.

In 3 sizes

16/- doz.

15/6 "

11/6 "

Hard, Medium & Soft and also very Hard Unbleached.

Send your orders and enquiries to:

## W. R. TILBURY & SON

47 Frampton Park Road, Hackney, LONDON, E.9

ENQUIRIES INVITED FOR "OWN BRAND" LINES

"Fort Brand"

The  
Brush  
you can  
rely on.



# EXEMPT!

## Labelling of Poisons Order

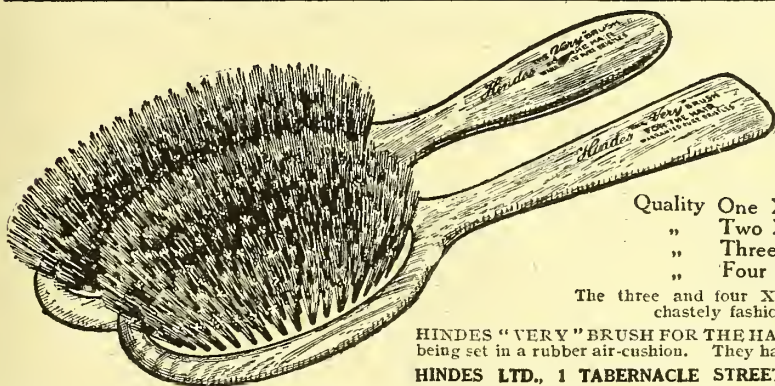
# VEET

*The Original and Perfect Hair-Removing Cream*

is not affected by the provisions of this order as it does not contain any poisonous ingredient.

*Bonus Offer still open. Write for particulars.*

**DAE HEALTH LABORATORIES, LIMITED**  
68 BOLSOVER STREET  
LONDON, W.1.



### HINDES "VERY" HAIR BRUSH

Quality	One X	Sold at 7/6d. each.	TRADE PRICE 33 1/3%
"	Two XX	" 10/6d. "	
"	Three XXX	" 15/- "	
"	Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood chastely fashioned in both oval and circular bodies.

HINDES "VERY" BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.

HINDES LTD., 1 TABERNACLE STREET, LONDON, E.C. :: Works: BIRMINGHAM

Telephone: Axminster 5.

Telegrams: "Coate, Axminster."

## COATE & CO. (Axminster) Ltd.

The London Brush Works, Axminster, Devon.

Estab. 1847.

*Manufacturers of Super British Brushes*

Our Special "PROPHYLACTIC" Tooth Brushes—

3 row Hard, Medium, Soft, Yellow Hair @	...	...	...	16/- per dozen
4 " " " " " " " " " "	...	...	...	18/- " "

Orders for one gross supplied in Cartons with customer's name and address free.  
Every Brush Guaranteed. British made by British Labour. Send for our present list of prices.

# 'SURCO' Seamless Hosiery

## FOR QUALITY.


SEND FOR CATALOGUE TO PATENTEES AND MANUFACTURERS,  
SURGICAL HOSIERY CO., LTD., Dept. B, RUSSELL STREET, NOTTINGHAM.

### THE "SOMERSET" DOUBLE WARP

## Crepe Bandages

Oldest British Manufacturers. Lowest Prices. Highest Qualities  
Sole Manfrs.—F. W. Folkes & Co., Wallbridge Avenue Mills, Frome, Som.  
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FOR



**CRÉPE 'VINWOOD' BANDAGES**  
Trusses, Belts, Elastic Hosiery, &c.  
Ask for "EUREKA" Brand  
Obtainable from Wholesale Houses or  
**VINCENT WOOD,** 91/93 NEWINGTON CAUSEWAY, S.E.1.

**T.H. FORD LIMITED**  **6, WELL ST. LONDON, E.C.1.**

Telegrams: Droscolym, Cent, London. Telephone: City 2522 (Private Branch Exchange).

**SURGICAL DRESSINGS**  
**SURGICAL SUNDRIES**  
**"INGOT" Regd.**  
**QUALITY and FINISH.**  
Are Selling Lines and bring Repeat Business.  
Allow us to quote you when next in the market.

### NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

**OSCAR SCRUTON & CO., YORK**

## LOYALTY PAYS

New Bonus on "Howard" Hot Water Bottles makes Sales Energy worth while

They sell in  
Sickness.  
Mention them  
when  
dispensing.

Low Prices  
obtain to  
Feb. 1st.  
Order in  
time.

1. Keep on displaying and selling "Howard" Hot Water Bottles—this loyalty will repay you—bigger sales; bigger bonus.

2. At the end of the Season we total your purchases of "Howard" Hot Water Bottles between September 1st, 1925, and February 1st, 1926. We then credit you with the appropriate discount (below) on that total, instead of treating each delivery separately.

3. Discounts: 3 doz., less 5%;  
6 doz., less 7½%;  
12 doz., less 10%.

4. Prices: GREY. RED.  
8 by 10 3/6 8 by 10 4/4  
8 by 12 4/- 8 by 12 4/9  
10 by 12 4/6 10 by 12 5/5  
A Year's Guarantee.

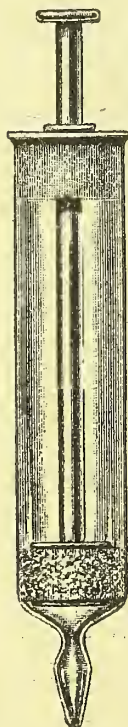
SEND YOUR ORDER NOW

**THOMAS SWALES LEEDS** 20, 24 Butts Court

"SWALES for SUNDRIES." "SWALES for SUNDRIES."

## THE "BULL" PERFECT SYRINGE

### PATENTED



The washer is of Spongy Rubber which always fits the bore and does not allow leakage or backwash. Unaffected by climate. Easily sterilised. Impervious to acid solutions. **British-made.** Various patterns of point.

IN THE OPINION OF THE  
MEDICAL PROFESSION THE  
MOST EFFICIENT SYRINGE  
ON THE MARKET

FROM ALL  
WHOLESALE HOUSES

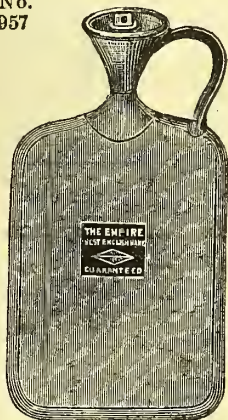


# The "EMPIRE" HOT WATER BOTTLES

*One Quality only—The Best.*

*Guaranteed for 2 years.*

No.  
957



These bottles have stood the test of over thirty years' trade. Customers who have left us for cheaper goods have nearly always come back to the firm in whom they can place confidence. This is the time to place your stock order.

## PRICES

Sizes in inches	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
"Empire" brand heavy make,								
grey rubber, each	3 33	5 3	8 3	10 4	4 4	9 5	0 5	9
red "	4 04	4 4	8 5	0 5	6 6	0 6	3 7	0

Each bottle in a strong paper bag with directions for use.

## COVERS

Sizes in inches	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
Scarlet or Grey Plush, each	1 21	4 1	6 1	7 1	8 1	10 2	0 2	3
Velour, assorted colours (washable) ,,	1 31	5 1	7 1	9 1	10 2	0 2	3 2	6

CARRIAGE PAID ON ORDERS OF £3 AND UPWARDS.

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

**BURGE, WARREN & RIDGLEY, LTD.** 91 & 92 GREAT SAFFRON HILL  
LONDON, E.C.1

## Zeal's CLINICAL THERMOMETERS

are

**BRITISH MADE**

by

**BRITISH LABOUR**

from

**BRITISH GLASS**

and

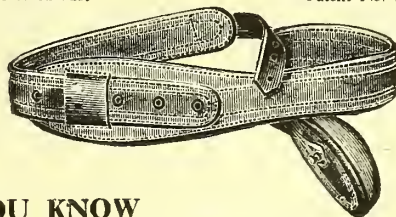
**GUARANTEED  
PERMANENTLY ACCURATE**

**G. H. ZEAL, LTD.** 75 & 77 St. John Street  
—LONDON, E.C.1—

## The "Hernicura" "COMFORTABLE"

Reg. No. 627925.

Patent No. 23241.



### YOU KNOW

how often you have trouble in fitting customers with trusses, and how frequently dissatisfaction is expressed.

### TRY

the "Hernicura" Trusses. They are easy to fit, possess great adaptability, give absolute satisfaction, and yet are most reasonable in price.

A 33 inch Truss will adjust from 30 to 36 inches. Head is also adjustable.

Write for Price List.

Specimens on appo.

**MORGAN-DAVIS & SONS LTD.**

Truss and Surgical Appliance Makers

276-278 BISHOPSGATE, E.C.2.

Phone:  
Bishopsgate 2417.

# SOL-VO SANITARY ROLLS & PACKETS.



## SOL-VO REGD. THE BEST & PUREST SANITARY PAPER



	per doz.		per doz.
Three dozen Rolls ...	7/- net.	Three dozen Packets ...	10/- net.
Half gross     "     ...	6/6     "	Half gross     "     ...	9/6     "
One gross     "     ...	6/-     "	One gross     "     ...	9/-     "
Five gross     "     ...	5/3     "	Five gross     "     ...	8/3     "

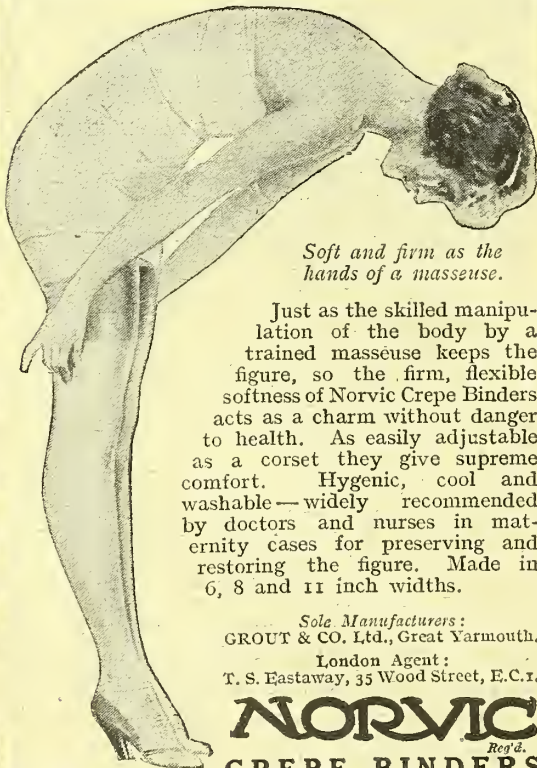
CARRIAGE PAID.

CASES FREE.

## FORD, SHAPLAND & CO. Ltd.

LABELS & SHOWCARDS — PRINTERS — CARTONS & ENVELOPES,  
GT. TURNSTILE, HIGH HOLBORN, LONDON, W.C.1.

TELEGRAMS: FORSHAPCO. WESTCENT. LONDON.

TELEPHONES: HOLBORN  
L5503 & 4731

*Soft and firm as the  
hands of a masseuse.*

Just as the skilled manipulation of the body by a trained masseuse keeps the figure, so the firm, flexible softness of Norvic Crepe Binders acts as a charm without danger to health. As easily adjustable as a corset they give supreme comfort. Hygienic, cool and washable — widely recommended by doctors and nurses in maternity cases for preserving and restoring the figure. Made in 6, 8 and 11 inch widths.

Sole Manufacturers:  
GROUT & CO. Ltd., Great Yarmouth,  
London Agent:  
T. S. Eastaway, 35 Wood Street, E.C.1.

**NORVIC**  
Crepe Binders

ESTABLISHED 1820

**SOUTHALLS'**  
have pleasure in introducing a  
**NEW SANITARY TOWEL**  
known as  
**Southalls' "CELTEX"**  
(Regd.)

The Towel is made entirely of Cellulose Wadding, and the pad is exceptionally large, measuring 10½ × 3½ ins. Each dozen is packed in an attractive carton.

Prices: **TRADE - 17/7 per gross**  
**RETAIL - 2/- per dozen**

Southalls' "CELTEX" Towels can be obtained at any of the Leading Wholesale Houses.

**Southall Bros. & Barclay Ltd**  
BIRMINGHAM

TRADE MARK REGISTERED



# For SUN, DUST, WIND & GLARE



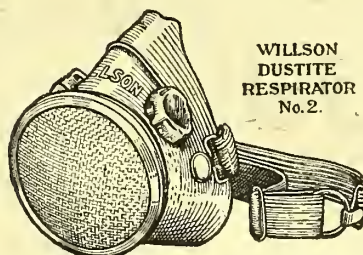
ONE OF THE MANY NEW  
ATTRACTIVE ASSORTMENTS OF

## Willson Goggles

Containing 12 Pairs of High Grade  
Goggles with assorted Fleuzal,  
Amber and Smoke Glass.

Look for  
the **WILLSON** name  
on the frame

CATALOGUES  
SENT ON REQUEST.  
ALSO ANY INFORMATION  
GLADLY GIVEN.



WILLSON  
DUSTITE  
RESPIRATOR  
No. 2.

For Dusty Work and Spraying.

WILLSON DUSTITE  
RESPIRATOR No. 2.  
Dry Filter Model with 2 Relief  
Valves.

WILLSON DUSTITE  
RESPIRATOR No. 3.  
Wet Sponge Filter Model,  
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Protection with Comfortable  
Breathing.



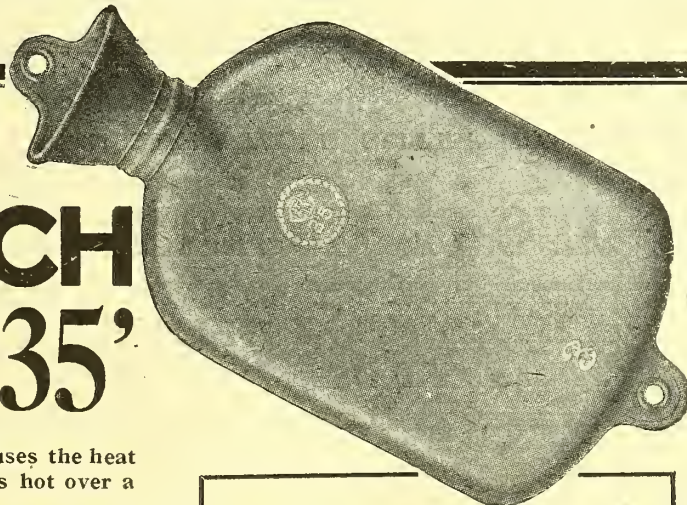
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Telegrams: "PULZONE, LONDON."

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# The GOODRICH HOT WATER '35' BOTTLE



**H**OLDS the water—securely; diffuses the heat  
—steadily and equably; remains hot over a  
long period.

The rubber of '35' is of the thickness which  
is proved scientifically correct for a hot water  
bottle, and is of a special quality that allows  
warmth to radiate steadily and lastingly. (A  
thickly made bottle absorbs heat to warm itself.  
A thinly made bottle, when filled, is too hot at  
first, and too soon becomes cold.)

The neck of '35' is specially strong, the stopper  
a perfect seal—rustless and easy to remove.  
The experience of nearly fifty years has produced  
the Goodrich '35'—the Ideal Hot Water Bottle.

The Goodrich '35' red rubber water bottle is  
moulded by hydraulic pressure, in one piece.  
There are no seams. The rubber is heavily  
reinforced where the strain comes most.

#### OTHER GOODRICH SPECIALITIES.

Fountain and Combination Douches, also  
various Rubber Sundries for the Surgical Trade

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Branches: LEEDS and LIVERPOOL.

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# Petroleum Jelly

White, Yellow, Amber,  
& Ruby Red, for all  
Pharmaceutical and  
Veterinary purposes

**MEADE-KING, ROBINSON & CO., LTD.**

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PARAFFINIUM LIQUIDUM B.P.

HALF-WHITE OILS,  
TRANSFORMER OILS

TECHNICAL WHITE OILS

PETROLEUM JELLIES SNOW WHITE BP AND NATURAL WHITE BP

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# PETROLEUM JELLY

Best qualities Yellow and White B.P., Red Veterinary and Green.

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Tel. No.: Royal 2666 & 2667.  
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Also GUM ARABIC and TRAGACANTH  
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Works: Bermondsey.  
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**PETROLEUM JELLY**  
 ("SALVO PETROLIA")  
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THE PERFECTION OF PETROLEUM JELLY  
 MANUFACTURED SOLELY BY

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**PACKED IN BARRELS, KEGS OR  
 SMALLER PACKAGES IF DESIRED.**

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**WHITE OILS B.P. & Technical Qualities**  
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**OLEUM DEELINÆ (DEE OIL)**  
 THE UNFAILING CURE FOR ECZEMA



## NECTAR CREAM (Regd. Brand) OLIVE OIL



**The BEST the World Produces**

To those who appreciate **QUALITY**,  
 Nectar Cream appeals irresistibly, as  
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 Chemists **NEED** the BEST.

Write for samples and prices of bottles, cans, and casks, to Sole Importers

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# Russolax

REGISTERED TRADE MARK

## Russian Medicinal Paraffin

*Recommended by the most eminent  
 Surgeons and Physicians for Chronic  
 Intestinal Stasis (Chronic Constipation).*

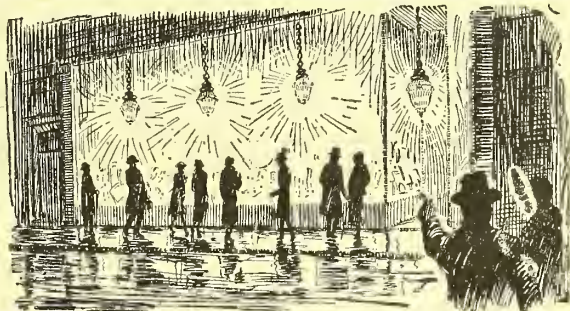
OBTAINABLE AT ALL CHEMISTS  
 AND STORES IN 10-OZ. AND 20-OZ.  
 PANEL BOTTLES.

Sole Manufacturers:

**Reddgrave, Butler & Co., Ltd.**

Liquid Paraffin Specialists,

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## Better Light means Better Sales

Light, properly arranged, can be your most powerful Sales Force. You can increase your light, and therefore your sales, at no extra cost by fitting Supastone 3-ply Lighting Glassware, which sheds a brilliant white glare-free light, 3 times brighter than ordinary ware. In many attractive and distinctive designs.

Ask your Lighting Stores to show you a new range of "SUPASTONE" shades and bowls. There is a design for every purpose, plain and hand-painted. Nearest dealer's name on request.

**"Supastone"**  
 THREE-PLY GLASS

Wholesale and  
 Export Only.

Wholesale Fittings Co., Ltd.  
 23-27 Commercial St., London, E.1



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Buy a Business, Sell a Business, Secure an Agency, Engage an Assistant, Procure a Situation, or Sell Odd Lots of Chemists' Requisites

If so, you can do it quickly and satisfactorily by an advertisement in

## THE CHEMIST & DRUGGIST SUPPLEMENT

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**Businesses Wanted and for Disposal, Premises to Let, Goods for Sale, and Agencies;** 6/- for 50 words; every additional 10 words or less, 6d.

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Enquiries and orders for  
ALL KINDS OF  
**GLASS  
BOTTLES**  
will receive immediate attention.

# ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED  
IS MANUFACTURED BY

**THE PHARMACEUTICAL LANOLINE CO.**  
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WHO INVITE ENQUIRIES. Telegrams: "Batapo, Walgreen, London."



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*Medicinal*

## LIQUID PARAFFIN

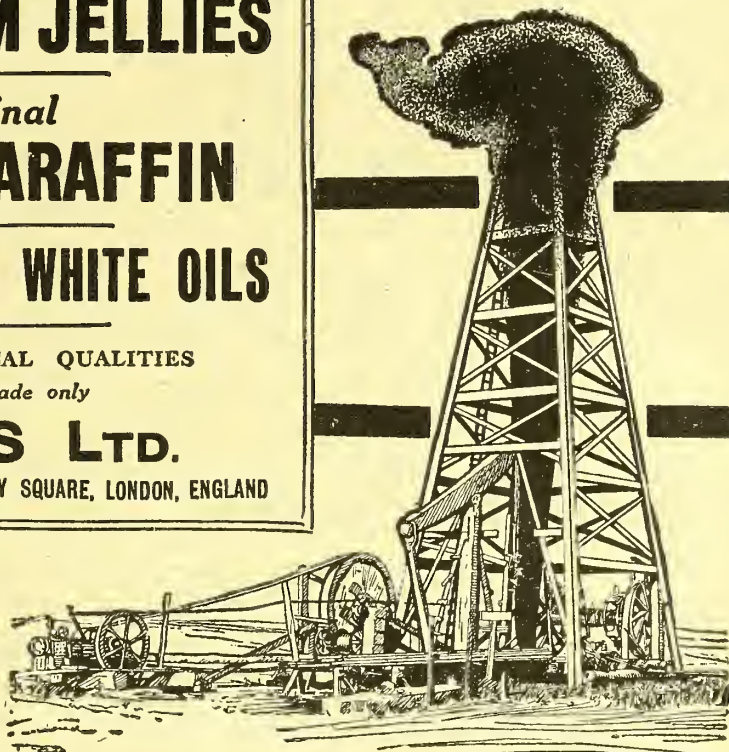
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B.P. AND TECHNICAL QUALITIES

*Wholesale Trade only*

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S.G. 890/5. Guaranteed to remain bright at 0°C.

White and Half White Oils

B.P. White and Yellow Petroleum Jellies

QUOTATIONS & SAMPLES will be sent on application.

## IF YOU WANT GOOD VALUE IN FOREIGN AND BRITISH WINES

"Crown" Brand

Liebig's Meat and Malt Wine, "Win-Ferro" — Tonic Blood Wine, Lime Juice Cordial and Lemon Squash

Write to:—

**LAMB & WATT, Ltd.**  
48 ST. ANNE STREET, LIVERPOOL  
for Price List.

**ESTABLISHED 1847.**

Highest Awards at all International Exhibitions  
where shown.

## Sell HONEY with a TRUE HONEY FLAVOUR

Your customers will never tire of the flavour of

**NEW ZEALAND**  
*'Imperial Bee'* **Honey**

It has the largest sale in the world and repeat orders are bound to follow.

GUARANTEED PURE and WITHOUT PRESERVATIVES, rich in the essential vitamins, because it is uncooked.

CASES per dozen, carriage paid.

48/1's	Glass Screw-top Jars	at	14/-
48/1/2's	" "	at	8/6
48/1's	Monopots	- -	at 12/6
48/1/2's	" "	- -	at 7/3

If you cannot obtain supplies through your Wholesaler, write to—

**A. J. Mills & Co. Ltd.** (Produce & Canned Goods Dept.), 14 Tooley St., London, S.E.1

**EMPIRE PRODUCE**

## MAJAX

The ideal milk sugar for babies. We are having direct orders from all parts of the country. Why not participate in this business?

For terms write to Proprietors

**MAWSON & PROCTOR, LTD.**  
NEWCASTLE-ON-TYNE.

## Dr. Allinson's Food Preparations

FOR ALL AGES AND CONDITIONS OF HEALTH AT FIRM AND PROTECTED PRICES.

Food for Babies, Prepared Barley, N.F. Cocoa, Biscuits, Wholemeal, &c.

See Trade Mark "T. R. Allinson" on all our goods—None Genuine Without.

### SPECIAL NOTICE

We issue a list of WHOLESALE HOUSES who keep above in stock, if for any reason you have difficulty in obtaining supplies, please send postcard direct to us and a list will be sent to you by return.

**NATURAL FOOD COMPANY Ltd.,**  
Cambridge Road, Bethnal Green, London, E.

All advertising matter—Booklets, Window Displays, Showcards, etc., free on application.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

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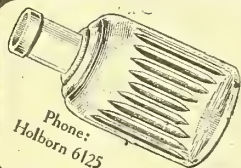
### A. MILLAR & CO., LTD., DUBLIN

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Prepared in strict accordance with the Formula of the British Pharmacopoeia.

(Wholesale only).

Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.



## GLASS BOTTLES

of every description for all purposes.

ENQUIRIES SOLICITED.

## VAN DER HOEKS

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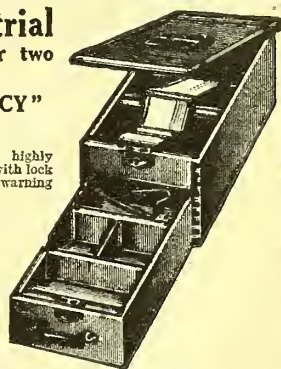
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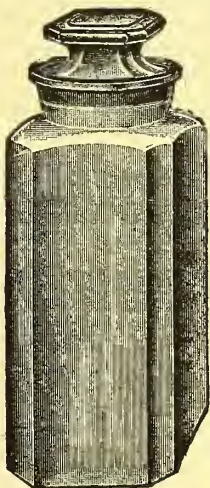
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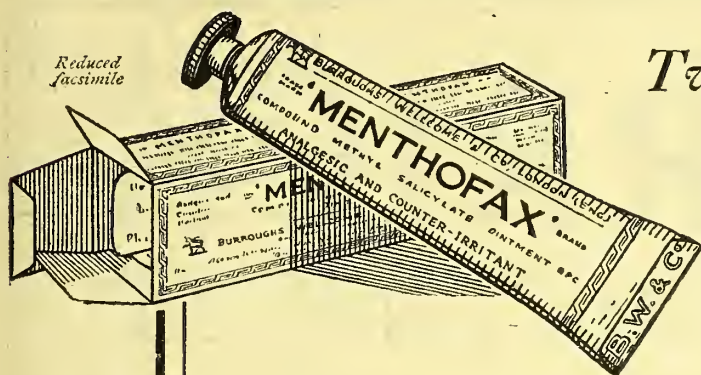
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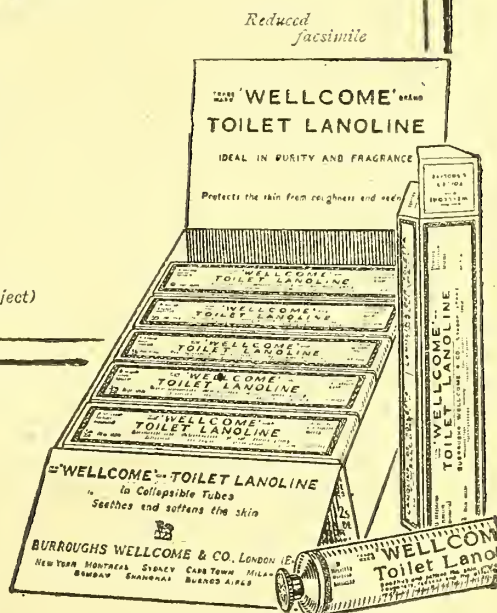
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## A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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### "Sale of Poisons by Wholesale"

A NEW edition of this useful booklet was published on January 1. This pamphlet, especially compiled for the use of commercial travellers and employees of wholesale houses, has been subject to revision in several particulars, and includes the provisions of the Northern Irish Pharmacy and Poisons Act, which is necessary for those who have dealings with chemists in Northern Ireland. The booklet contains a list of articles included in Part I of the Poisons Schedule, and indications of the "dangerous" drugs for the sale of which more stringent regulations have to be observed. A few blank pages are provided for additional items. The drug traveller who carries this in his pocket has at hand a trustworthy guide in any difficulties which he encounters in the course of his journey. The "Sale of Poisons by Wholesale" is supplied at 1s. each, post free.

## English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

### Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

At Heaton, Northumberland, William Bullerwell, aged two, died after playing with some pills in his grandparents' house. A medical witness stated at the inquest that pills similar to those spoken of were known to contain  $\frac{1}{10}$  gr. of strychnine each, and that if the child had taken four or five of these death might be attributed to this. A verdict of "Accidental death" was returned.

Summing up at an inquest in West London, on January 8, on the body of William Paull, book-keeper, who committed suicide by taking spirit of salt while of unsound mind, the deputy-coroner remarked:—"I fully agree with what Mr. Oswald (the senior coroner for the County of London) has so often stressed and written about—the absurd ease with which people may obtain domestic poisons. It should be stopped in some way."

At an inquest at Liskeard, on January 7, on a retired rural postman, who was found hanging, it was stated that there were forty-three empty chlorodyne bottles in his bedroom. The county coroner remarked that, while chlorodyne was not scheduled under the Dangerous Drugs Act and anyone could therefore buy it freely, it contained morphine, and its effect was to set up a most intense craving. The jury, in returning a "Suicide" verdict, added a rider expressing their opinion that the indiscriminate sale of chlorodyne was dangerous, and should be curtailed.

### Staff Events

Under the auspices of the "Napoleon" Club, the staff of H. R. Napp, Ltd., manufacturing chemists, Clement's Inn, London, W.C.2, gathered at the Restaurant Frascati on the occasion of the annual dinner, and spent a most enjoyable evening, the President (Mr. H. R. Napp) taking the chair. Members of the staff contributed to the entertainment with songs, monologues, sketches and conjuring tricks. Dancing was engaged in, and sped the hours all too quickly.

Parke, Davis & Co.'s Beak Street staff held, on January 7, at the Regal Rooms, Regent Street, a most successful whist drive, followed by a dance. The company included Mr. Fisk (the manager), Mrs. Fisk, Mr. Cathcart (manager of the Hounslow Laboratories), several members of his staff, Mr. Hickey and others of the London travelling service, and several former members of the staff. By no means the least enjoyable part of the programme was the supper interval; dancing then proceeded until midnight.

The annual conference of representatives of Evans Sons Lescher & Webb, Ltd., was held in Liverpool on December 30 and 31, the chairman of the company (Mr. J. H. E. Evans) presiding. Dr. Mitchell and Mr. Marris gave addresses, and every department was dealt with in detail by the various directors responsible for the management. In the evening, on December 30, fifty representatives sat down to dinner. An excellent musical programme had been arranged, and during the evening a presentation was made by the representatives to the chairman of a handsome clock, and to the managing director of a solid silver cigar box. The presentation was made by Mr. G. Brinson, representing the Liverpool representatives, supported by Mr. Hitching on behalf of the London representatives. Mr. Evans and Mr. Lescher thanked the representatives in appreciative terms. On December 31 the laboratory and mills at Fleet Street were visited under the direction of Mr. Sendall, and the company's soap works at Manchester were also included in the programme. Tea, which was served at the works, concluded a most successful conference.

The directors of T. F. Bristow & Co., Ltd., soap and perfumery manufacturers, Colindale, London, N.W., entertained the staff and employees recently at a Christmas gathering at Ye Olde George Hall, Edgware. Mr. H. N. Bolton (chairman) presided, supported by Messrs.



B. Carpenter and J. H. Stockton, directors, and Mr. H. L. Gauntlett, general manager. The toasts of "The Firm" and "The Chairman," proposed by Mr. C. Vinall and Mr. H. L. Gauntlett respectively, were enthusiastically honoured. Between the toasts a selection of songs was given by Misses McNally and Palmer, and Messrs. Holder, Vinall, and Goldsworthy. Miss Lily Jones played the flute to perfection. Handsome prizes were given by the directors to be drawn for against the numbers on the programmes, and dancing concluded a very pleasant evening.—An enjoyable function took place at the Holborn Restaurant, W.C., on December 30, when the representatives of T. F. Bristow & Co., Ltd., were entertained at a dinner given by the directors of the company at the termination of the annual travellers' conference. Mr. H. N. Bolton (chairman) presided.

### Birmingham

The old Birmingham Dispensary in Union Street, dating from 1806, has just disappeared.

Hedges (Chemists), Ltd., have purchased the business of Mr. J. T. Bell, chemist and druggist, 297 Coventry Road.

Sir William Bragg has been invited to accept the presidential chair of the Midland Institute for the coming session.

Alderman W. A. Cadbury has presented to the Birmingham Reference Library a copy of the *Missale Olomuncense*, printed at Nuremberg in 1499.

### Liverpool

Mr. M. C. Greening, manager of Newbery's Liverpool branch, had a very narrow escape from serious injury, having just missed a falling chimney-pot near his home.

Mr. R. G. Edwards, an active member of the Manchester City Council, and also an ex-President of the Manchester Pharmaceutical Association, was in Liverpool this week, and visited some of his *confrères*.

For wilfully damaging four glass cases, three plate-glass doors and other fittings, to the extent of £20, in the shop of Mr. A. Elder, Ph.C., Woodchurch Lane, Prenton, on January 2, G. E. Guthrie, Whetstone Lane, Birkenhead, was fined 20s., and ordered to pay £5 damages, a sum arrived at by agreement with Mr. Elder.

The Liverpool Pharmacy football team were congratulated by the sports editor of the "Liverpool Football Echo" on January 9 for winning their first match of the second half of the football season. They beat Garston Tramways 4-2, on the Garston ground. The Pharmacy club gave the Adelphians a very close fight the previous week, only being beaten by the odd goal. The same happened to the Lombardians. Their improvement has created great interest in local football circles, and has culminated in the Pharmacy club being invited to participate in the Liverpool Mid-Week Cup Competition.

### Manchester

Mr. A. E. Thorpe, chemist and druggist, has acquired the business of Miss Peacock in Great Western Street, Moss Side.

The list of proprietary articles and medicines which has been issued by James Woolley, Sons & Co., Ltd., showing the multiplicity of articles which come under the new Labelling of Poisons Order, will be greatly appreciated.

One large wholesale firm in Manchester has a canteen from which knives and forks have been mysteriously disappearing. The manager, in consequence, has had a notice put up which reads: "Please note that knives and forks are not a medicine, and must not be taken after meals."

### Sheffield

An epidemic of measles has broken out, and fresh cases of small-pox are being reported.

Mr. J. F. Eardley, Ph.C., F.C.S., has again tabulated a year's rainfall in the Kindrick district.

We understand that the Sheffield Board of Guardians contemplates further business with retail chemists in the outlying areas of the city.

The social evening and dance announced on the programme of the Sheffield Pharmaceutical and Chemical Society for February 18 is cancelled.

### Miscellaneous

**POISON-LICENCE APPLICATION.**—Mr. W. E. House, Abbey Road, London, S.E., has applied for a licence to sell agricultural and horticultural poisons.

**IN THE COURTS.**—At Uxbridge, on January 11, Percy Dewhurst, described as a chemist, was fined 40s., with 21s. costs, for travelling on the buffers of a goods train.

**FIRES.**—On January 6 there was an outbreak of fire at the premises of W. J. Bush & Co., Ltd., manufacturing chemists, Ash Grove, London, E., the cause being an explosion of chemicals. A laboratory on the second floor was slightly damaged.—On January 11, a fused electric wire in the shop of Darling & Roberts, chemists, Stoke Road, Gosport, set fire to some of the stock. The fire was soon extinguished.

**FALSE-PRETEXTS CHARGES.**—At Worthing, on January 6, George C. Bennett, traveller, was charged with having obtained £1 by false pretences from Mr. R. W. Witchell, chemist and druggist, Worthing. Mr. Witchell stated that the defendant asked him to lend him £1, which he did, because he could not cash for him a cheque for £11. The defendant denied that he told Mr. Witchell the amount of the cheque he desired to get changed; he asked the complainant to lend him £1 as his cheque had not come through, and he offered to give Mr. Witchell an I.O.U. for it. The Bench dismissed the case.—At Preston Quarter Sessions, on January 6, Thomas J. Sellars (27), engineer, Lancaster, was sentenced to twelve months' hard labour for obtaining by false pretences the sum of £1 from Mr. Arnold Simpson, chemist and druggist, manager to Boots, Ltd., at Chorley.

**THEFT CHARGES.**—At Rugby, recently, Elizabeth Allsop was charged with stealing a packet of Peps, and a packet of Snowfire, value 1s. 6d., from the shop of Mr. Wilford Smith, chemist and druggist. The prosecutor's manager, Mr. G. B. Eagle, chemist and druggist, said that he had been troubled by petty thefts. He saw accused take the two articles mentioned and a tablet of soap. She replaced the soap, but put the other things under her coat. The defendant had only 6d. in her hand, and on witness saying there was 2s. to pay she said she could not pay it. The defendant admitted taking the Snowfire, said that she was only reading the directions on the Peps, and denied picking up the soap. The Bench thought the case had been handled badly by the manager, who had turned it into a civil debt, so that they were bound to dismiss the charge.—At Huddersfield Quarter Sessions, on January 4, Horace Wood was sentenced to twelve months' hard labour for having broken into the shop of Mr. E. R. Swift, chemist and druggist, and having stolen eleven tooth-brushes and some sweets.

## Business Changes

WEST & Co., chemists, have opened a pharmacy at 16 East Hill, Dartford.

MR. W. J. EDMONDS, chemist and druggist, has purchased the business of Cash Chemists, Ltd., 52-54 Beach Street, Penang, of which he has been manager for the past eleven years.

MR. D. T. ROBINSON, chemist and druggist, Norwich and Chiswick, London, W.4, has acquired the business of Mr. F. W. Farr, chemist and druggist, 9 Coleherne Terrace, Earl's Court, S.W.5.

MR. H. RENSHAW CLARKE, chemist and druggist, has acquired the businesses of Mr. S. Cook, J.P., chemist and druggist, 76 Radford Road and Denman Street, Nottingham, as from January 1. Mr. Clarke was apprenticed to Mr. Cook, who is his uncle, and qualified in 1904. For the past sixteen years he has managed the two shops now owned by him. Mr. Cook, an account of whose career appeared in the *C. & D.*, I, 1922, p. 852, is still residing at Bournemouth.



## Irish News

### Brevities

For the half year ended September 30 the cost of medicines and medical appliances for the co. Galway Hospitals and Dispensaries Committee was £1,141.

There are at least six chemists' businesses for sale in Dublin by private treaty. The shops are situate in different parts of the city, and in some instances the owners, having other shops, wish to concentrate on them.

At Londonderry Police Court, on December 29, Annie Curry, a young unmarried woman, charged with causing the death of her six-days-old child (*C. & D.*, December 26, p. 889), was committed for trial at the Assizes.

At the recent meeting of the Newtownards Rural Council a report was received from Dr. S. Wallace, medical officer of the Kilnood Dispensary district, to the effect that rat poison had been put in a pump at Lisbane, Comber. The Council decided to have a chemical analysis of the water made.

On January 6 an extensive outbreak of fire occurred in the shop of Mr. F. J. Molyneux, R.D., Kildysart, co. Clare. Mr. Molyneux retired to bed as usual, and about 2 a.m. he was awakened by a dog to find the room filled with dense smoke. The stock, amounting, it is estimated, to several thousand pounds in value, was completely destroyed.

The Northern Ireland municipal and urban elections, polling for which was fixed for January 15, produced several drug-trade candidates. In Belfast Mr. Samuel McLoughlin, Ph.C., Oldpark Road, has had a walk-over in Duncairn ward. Mr. R. F. McCartney, Ph.C., was returned unopposed to the Coleraine Urban Council, but in Antrim Mr. F. T. Smith, J.P., R.D., who is seeking re-election, is having a contest. There are three pharmaceutical candidates in the various wards in Newry, namely, Messrs. J. E. Connor, J.P., C. S. O'Hare, and Mr. Patrick Mallon, the last-named of whom comes forward for the first time. In Portadown Mr. John Sandford, R.D., was re-elected without a contest for the North ward.

Mr. W. D. L. Greer has been appointed Registrar to the newly formed Pharmaceutical Society of Northern Ireland. Mr. Greer, who is a graduate of Trinity College, where he was auditor of the Historical Society, is a member of the staff at the Home Office, and has been selected by the Minister of Home Affairs for the duties incidental to the registrarship, which include charge of the register. Mr. Greer is at present preparing the register and issuing licences. These should all have been out by January 1; but, as a number of members of the trade have not even yet applied, the work has not been completed. All who are not licenced by about January 15 will probably receive a reminder from the Home Office, and after that date it is not expected that any further latitude will be shown.

### Belfast

Dr. S. E. A. Acheson, M.C.P.S.N.I., has been appointed a vice-president of the Mountpottinger Y.M.C.A., Belfast.

The business carried on for over fifty years by the late Mr. William Lyttle, chemist and druggist, 172 North Queen Street, Belfast (*C. & D.*, December 5, p. 793), has been wound up.

At the Police Court, on January 9, David Glennon, Ward Street, was sent to jail for three months for the larceny of £3 16s. by means of a trick. Accused obtained blank chemists' labels, stuck them on paper, and wrote out orders which he presented to J. & J. Haslett, wholesale druggists, from whom he thus obtained goods.

At a meeting of the creditors of the late Mr. A. MacNaughton, R.D., on January 8, in Belfast, a suggestion was made that in view of the special circumstances in which the widow and children of the deceased were placed the creditors ought to forgo their claims against the estate of the deceased, and to this proposal the meeting unanimously agreed.

It was stated recently, at a meeting of Belfast Public Health Committee, that a new serum for scarlet fever

was achieving good results at Purdysburn Fever Hospital, Belfast. The serum has also been used in the Fever Hospital, in Cork Street, Dublin, with satisfactory results. It is stated that the use of the serum has reduced the necessary isolation period from six weeks to between twenty and twenty-four days.

### Cork

The chemists' and druggists' trade was fairly good in 1925, but it was affected by the general depression in other trades. At the close of the year business had improved, and the Christmas trade was quite brisk.

The question of stricter adherence to the trade dispensing charges has been given considerable attention by chemists in the South of Ireland, and it has been suggested to the Dublin Pharmacists' Union that if the South were split up into sections the local branches might be able to deal more readily with breaches of trade practices.

Irish preparations containing spirit are liable to tax on export to Great Britain, notwithstanding the fact that tax has already been paid to the Free State authorities. The quantities of spirit are in most cases so small as to render adjustment with the Customs and Excise impossible. Nevertheless the ultimate charge to the customer becomes so high that orders from outside the Free State are gradually dwindling away.

## Scottish News

### Brevities

Scottish farmers have now agreed to give the sugar beet industry their fullest support, and large areas of beet will be cultivated this season.

Great success attended the annual dance recently held by the chemists and druggists of Dumfries and Maxwelltown. This function, which took place in the local Assembly Rooms, proved of a highly enjoyable character, and the hall was tastefully decorated for the occasion. Bailie Lockerbie and Mr. William Murray capably discharged the duties of masters of ceremonies.

News comes from Durban (South Africa) of the death there of Mrs. Mary Gibson, widow of the late Mr. Samuel Gibson, who for many years carried on business as a chemist and druggist in Linlithgow. Mr. Gibson was in business in Linlithgow over thirty-five years ago, and after her husband's death Mrs. Gibson continued to carry on this business until she left this country for South Africa to join her relatives there.

Opinion is very divided on the question of the labelling "Poison" of many articles, such as Hamilton's pills, etc., many chemists insisting that to do so would be to interpret the Act too literally, although a consignment of acetum ipecacuanhae arrived from a wholesale house recently labelled "Poison." Feeling on the new order runs very high in Scotland, and a question is asked about the packed lines sold by so many general dealers.

### Glasgow

The fees of medical specialists is a topic for "letters to the Editor" at present in the columns of the "Glasgow Herald."

A lecture-recital will be given in the rooms of the Glasgow Pharmacy Club (Literary and Scientific Section) at 165 Hill Street, Garnethill, on January 20, at 8 p.m., by Mr. J. B. Trenwith, entitled "How They Proposed. Some Examples taken from Famous Fiction."

At a recently held meeting of the Special Acts Committee of Glasgow Corporation a letter was submitted from the secretary of the Kinning Park Ward Committee relative to the difficulty of obtaining medical aid on Tuesday afternoons, owing to all chemists' shops and dispensaries being closed, and most of the medical men being absent during the weekly half-holiday. It was also suggested that arrangements should be made whereby a number of these shops would be kept open on this particular afternoon. After discussion, the Special Acts Committee agreed to remit this suggestion to the Committee of Health for further consideration.



## French News

From the "C. & D." Paris Correspondent

M. RÉNÉ FABRE, hospital pharmacist and preparator of toxicology in the Paris Faculty of Pharmacy, has been awarded the Buignet prize by the Academy of Medicine.

THE NUMBER OF STUDENTS at the Paris Faculty of Pharmacy is 748. Of these, 230 are in the first, 194 in the second, 179 in the third, and 145 are in the fourth year of their studies. Over one-third of the total number of students are ladies.

THE ACADEMY OF SCIENCES has awarded the Berthelot prize to M. E. André, head hospital pharmacist, for his researches on fatty bodies, and the Mège prize to Professor Douvis, Nancy Faculty of Pharmacy, for his "Practical Guide to the Analysis of Blood."

THE FALL IN THE FRANC and the resulting increases in retail prices is attracting the attention of pharmacists. One writes to a trade paper suggesting as a basis for prices that £1 should be taken as equivalent to 100 francs. Thus when the pound rises to 140 francs, the price of 10 franc medicaments would be raised to 14 francs, and so on.

THE VIGIER PRIZE OF THE SOCIETY OF PHARMACY not having been awarded last year, two sums were available for the last twelve months. One was voted to M. Roy, for his thesis on "The reaction of injectable liquids studied by means of new physico-chemical methods," and the other to M. Gastard, for his study of "The preparation of pharmaceutical syrups by means of fluid extracts for syrups."

ILLUSTRATIONS OF MEDICINAL PLANTS.—The fourth series of eight coloured plates of indigenous medicinal plants, issued by the Inter-Ministerial Committee for Medicinal and Aromatic Plants, includes hawthorn, mullein, peppermint, yellow gentian, buckthorn, juniper, belladonna, and bilberry. The plates are excellently reproduced, and on the back of each sheet a brief description of each plant is given, together with details regarding its occurrence, precautions to be observed in collecting the part employed in medicine, therapeutic properties and uses.

THE PARIS SOCIETY OF PHARMACY has elected as national corresponding members:—Professors Fonze-Diacon (Montpellier), Marguerie (Nantes), and Léon Martin (Grenoble); MM. Gastard (Rennes), Guimond (Vendôme), Legeay (Chartres), Mengus (Strassburg), and two army pharmacist-majors, MM. Henri Pecker and Casimir Périer. Professor Blaise, Paris Faculty of Sciences, and M. Balland, chief pharmacist of the army, well known as the historian of his profession, have been nominated associate members. Mr. G. P. Forrester (London) and Professor A. Jönesco (Bucharest) were elected foreign corresponding members.

FREE GIFTS IN PHARMACIES.—New year is the great shopping season of our Paris winter, and though window-dressing is not perhaps the strong point of the average French pharmacist, here and there an effort is made to bring the display into harmony with the season. I have noticed the advent of the system of a chemist of offering a "free gift" to all purchasers of goods to a certain amount, both in large central pharmacies and also in some smaller businesses. The gifts are, of course, displayed, and usually take the form of small bottles of scent, cakes of toilet soap, and similar goods, but in one case there was a long array of tiny sample bottles of liqueurs. In other cases articles suitable for presents are shown, and, of course, sundry attempts are made to put such seasonable goods as cough cures before the public. Clockwork figures are utilised in one large pharmacy, where the lady with a hacking cough accepts a lozenge of a popular brand from a bland and venerable practitioner and immediately sits up straight and smiles at the public. "Gifts offered to our clients during the whole of the month of January. For a purchase of at least 10 francs a handsome purse, elegant and durable, or for a purchase of 20 francs an elegant wallet, or cigarette case (proprietary medicines and mineral waters excepted)." So runs a pharmacy circular which reaches me as I write.

## American Notes

By "The Man from London"

THERE ARE 1,000,000 retail stores in the United States, or one for every twenty-two families. In 1924 there were 2,312 retail store failures; of these 1,635 were caused by incompetence. America spends \$52,000,000 a year in chewing gum, and last year spent \$240,000,000 for radio equipment, and will probably spend twice as much this year.

POTASH IN SHAVING SOAP.—According to Martin Hill Ittner, chief chemist for Colgate Co., the best kind of shaving soap is that containing a proportion of potash in the composition instead of all soda; the use of some hard fat which gives closeness to the lather, and perhaps some coconut oil soap which, because of its ready solubility, causes the more rapid formation of lather at the start.

THE CHEMICAL FOUNDATION.—In his brief, submitted to the United States Supreme Court which will hear the final argument in the Government's case against the Chemical Foundation, John W. Davis, chief counsel, declares it was proved "not only that there never had been a dye monopoly other than that of the Germans, but that the new industry of America was too weak and too competitive even to hope to create one."

THE U.S. CROP OF LINSEED is estimated at 22,332,000 bushels, compared with 30,173,000 bushels last year, the reduction being caused chiefly by decreased per acre yield. Linseed consumption in the United States reached a new high level for the year ended September 30, 1925, because of the continued building and painting activity. Crushing of domestic and imported seed totalled 41,000,000 bushels, of which 12,252,000 bushels were imported.

MORE PROHIBITION.—A new prohibition regulation has been issued prohibiting the use of whisky, brandy, or gin in medicinal preparations. It will be effective from February 1, 1926. The new prohibition regulations allow the use of alcohol and wine in certain medicinal preparations instead of whisky, brandy, and so on, which are still available on physicians' prescriptions for use in treatment of sickness, and are distributable through drug stores.

A METHOD for the assay of morphine formed the subject of a paper by Ray E. Schoetzw, read before the American Pharmaceutical Association in Des Moines, Iowa. This method is based on the interaction of sodium bicarbonate and morphine sulphate; the extraction of the liberated morphine from the dried product of that reaction with a solvent (absolute alcohol and chloroform) which does not dissolve more than a negligible amount of inorganic alkaline matter.

A NEW TRICK was played on a Californian druggist, by which he lost about \$40 worth of stock. A man called on the druggist and discussed new selling policies and new forms of packaging, and described a patent stopper guaranteed to prevent leakage. He got the druggist to pick out a lot of damaged packages, and directed that they should be sent back to the manufacturer he said he represented. Also the druggist, having a branch store, asked the man to call there and look over the stock of same goods. The stranger accommodatingly did so, and, condemning packages worth \$40, had them neatly wrapped up for him and walked away with them.

CHANGED FORMULAS.—Otto Raubenheimer is opposed to radical changes in the preparations of national standards, especially as to strength or physical appearance. Raubenheimer tells ("Druggists' Circular") of a case where one of his customers refused to take a prescription calling for "Lassar's Paste" that had been previously compounded in Europe. The "Lassar's Paste" was made according to National Formulary, Ed. III, official at that time, and was prepared with white petrolatum. The customer said that the ointment looked different, and would not accept it. Suspecting the reason, Raubenheimer wrote the late Professor Oskar Lassar at Berlin and learned that his original formula called for yellow petrolatum. Upon the writer's proposal this was then adopted in N.F. No. IV.



## Colonial and Foreign News

**ETHER FOR BULGARIA.**—The Bulgarian customs houses have been instructed not to allow the admission of consignments of ether addressed to persons who are not pharmacists or druggists.

**PHARMACY COUNCILLOR.**—The Bavaria Government has created a new title, that of "Pharmazierat" (pharmacy councillor), which was conferred for the first time at Christmas on five owners of businesses.

**FINNISH OFFICIAL NOMENCLATURE.**—The Finnish Pharmacopœia Commission has decided to adopt, in the case of salts, the Latin form of titles in use in the pharmacopœias of Great Britain, the United States, and also introduced in the last edition of that of Sweden.

**SAMPLES FOR HUNGARY.**—The Hungarian Minister of Commerce has decided to admit free of duty samples of medicines enclosed in letters addressed to individual medical practitioners, or to hospitals, provided the gross weight does not exceed 500 grams in the case of liquid and 300 grams in the case of solid medicaments.

**LIMITATION OF APPRENTICES IN NORWAY.**—To prevent further overcrowding in the ranks of the pharmaceutical profession in Norway, the maximum number of entrants is fixed annually. For the year 1926 the Medical Director has selected eleven pharmacies in various parts of the country, all outside the capital, to each of which one apprentice has been allotted from among the total number of candidates.

**PHARMACY IN PERU** promises to embark on a period of far-reaching reforms under the energetic guidance of Señor Juan Anaya, the new president of the Federación Nacional de Farmaceuticos del Peru. To enable Peruvian students of pharmacy to obtain efficient practical instruction in chemistry, Señor Anaya recently presented a fully equipped chemical laboratory to the Institute of Pharmacy.

**RUSSIAN BORAX.**—The experimental factory attached to the Leningrad Institute for Applied Chemistry has for the first time in Russia succeeded in preparing borax from boracite. This borax is to be placed on the market at 11 roubles per pood, against 23 roubles now being paid for imported borax, and the annual production of the new plant is estimated at about 30,000 poods, based on continuous working with three shifts.

**DUTCH MILITARY PHARMACISTS' PAY.**—From January 1 pharmacists in the Netherlands army will receive the following annual pay:—Army pharmacist of the second class, fl. 2,900, rising to fl. 4,000 after eight years' service; army pharmacist of the first class, fl. 4,300 to fl. 5,900 after 26 years' service; pharmacist with rank of major, fl. 4,900 to fl. 6,500, after 28 years' service; pharmacist with rank of lieutenant-colonel, fl. 5,300 to fl. 6,700, on completion of 29 years' service.

**SPECIALITIES IN PERU.**—The Director of Public Health of Peru has issued an official list of foreign pharmaceutical specialities which have been duly registered up to August 31, 1925, the sale of which is permitted in the republic, including a list of the authorised importers—forty in Lima, four in Callao, three in Miraflores, and two in Barranco. Pharmaceutical specialities prepared in accordance with formulas contained in the French Codex of 1908 must bear a label with the inscription in Spanish, "Formula de Codex Medicamentarius 1908."

**ITALIAN SAFFRON.**—At the beginning of the present century an area of over 500 hectares in the Italian province of Aquila was devoted to the cultivation of saffron, with an average annual yield of 4,500 kilos of dry saffron. Now the area under cultivation has decreased to only 60 hectares, restricted to the vicinity of Caporciano and Navelli, with an output of 400 to 500 kilos annually. It is now proposed to stimulate this profitable branch of agriculture in the Abruzzi by the introduction of suitable measures to promote the cultivation of the plant, and of a system of control to prevent the adulteration of the saffron collected by the growers.

**PHARMACY IN LITHUANIA.**—In Lithuania the former Russian law limited the number of pharmacies to one for every 5,000 souls; recently the ratio has been fixed at one for 3,000 inhabitants, with the result that the new republic now possesses 220 pharmacies. The Government is paying considerable attention to the question of ensuring an efficient supply of medicines, and is taking active steps to safeguard the interests of pharmacists, in particular by introducing measures designed to prevent the illicit sale of medicaments by druggists. Prices of medicines are now about twice as high as before the war, under Russian domination.

**ALCOHOL PRICES IN POLAND.**—The delivery prices of alcohol for manufacturing purposes have been considerably increased for 1926 by an order of the Minister of Finance. The price of pure alcohol (100 per cent.) for use in pharmacies and hospitals has been fixed at 726 zloty, for the manufacture of perfumes, etc., at 400 zloty, for the preparation of synthetic medicaments and glycerin soap at 110 zloty, and for the manufacture of vinegar at 65 zloty, per 100 kilos. The cost of production of 100 litres of pure alcohol (100 per cent.) is fixed at 110 zloty; the excise duty on alcohol manufactured in Poland amounts to 550 zloty, and on foreign alcohol, or imported alcoholic products, 720 zloty, per 100 litres pure alcohol.

**PERUVIAN DRUGGISTS' ASSOCIATION.**—Under the title, "Asociacion de Droguistas del Peru," a society has been formed in Lima, the membership of which is limited to wholesale dealers and importers in drugs, pharmaceutical chemicals and preparations, and druggists' sundries, employing a qualified pharmacist in accordance with existing legal requirements. The objects of the association are to protect and further the interests of its members, provide and exchange information required by them in the course of business, equip and maintain a library, and to promote business in general. Señor Félix Oliva Salaverry was elected the first president of the association. Foreign manufacturers, or their representatives in Peru, may become associate members.

**RUSSIA'S MEDICINAL REQUIREMENTS.**—According to official Russian sources, the total value of the pharmaceutical products required to meet the needs of the population of the U.S.S.R. is estimated at 51,922,300 roubles, of which about 40 per cent. has to be imported. In the year 1924-25 pharmaceutical preparations to the value of 12,000,000 were produced within the confines of the Union, in addition to chemical products used in medicine representing 8,000,000 roubles, while imports of these goods amounted to 8,000,000 roubles. Consequently 48 per cent. of the medicinal requirements of the inhabitants of Soviet Russia remained unsatisfied, represented by a deficit amounting to 13,000,000 roubles in the national production, and to 12,000,000 roubles in imports.



LEFT: XVIIIth CENTURY BLUE AND WHITE POTSDAM FAYENCE JAR, WITH THE MARK OF THE COURT PHARMACY, POTSDAM. RIGHT: FRANKFURT FAYENCE (XVIIIth CENTURY), IN BLACK, BLUE AND "MANGANESE" (FROM THE TEMMLER COLLECTION).



## Legal Reports

**Sale of Dutiable Medicines.**—At Dukinfield, on January 7, George Neighbour, River Street, Stockport, proprietor of Neighbour's drawing ointment, was summoned for a breach of the Medicine Stamp Act. For the prosecution, it was stated that the defendant sold his ointment to shopkeepers in cartons containing twelve boxes, and each carton bore a 6d. stamp. Under the Act the duty for each carton was 3s. On behalf of the defendant, it was stated that boxes of teething powders were sold under exactly the same conditions, and the solicitor for the prosecution intimated that proceedings would follow in those cases. The Bench imposed a fine of 10s., with 5s. costs.

**Action for Alleged Wrongful Dismissal.**—In the King's Bench Division of the High Court, London, on January 13, Mr. Justice McCardie had before him an action in which Mr. Harold A. White sued the London Essence Co., Ltd., Camberwell, S.E., for damages for alleged wrongful dismissal from his position as director and general manager of the defendant company, and certain commissions, and also asked for an injunction to restrain the defendant company from parting with certain shares in the company which he claimed belonged to him. The defendant company disputed the claim. Mr. Schiller, K.C., for the plaintiff, said that two brothers, Messrs. R. J. and J. D. White, carried on business as manufacturers of mineral waters. The plaintiff was the son of Mr. R. J. White, who, with his brother, started the London Essence Co.; plaintiff became manager of that business, and on him the bulk of its work fell. The business prospered. It was originally an ordinary partnership between the two brothers, but the company was afterwards registered. The partnership business, said Mr. Schiller, was, he thought, started with something like £450 capital, and it was eventually floated as a company with a capital of about £50,000. He mentioned that because any complaint made against his client about neglect of the business was hardly consistent with the history of the concern. Its history was consistent with attention to business. Up to the time of the matters complained of in that action, plaintiff had served either the partnership or the company for twenty years, and he had managed and built up the business. Evidence was called on both sides, and the hearing was adjourned to a date to be fixed, consequent on his lordship having another engagement.

**Excess of Moisture in Saffron.**—At Penzance Police Court, on January 7, George Tuckett, grocer, Penzance and Longrock, was summoned for having sold saffron which was below the standard fixed by the British Pharmacopoeia. The analyst's certificate showed that the saffron purchased by the inspector, who paid 1s. 0½d. for 2 drachms, lost 21.3 per cent. of moisture when dried at a temperature of 212° F. The defendant's solicitor said that the saffron was kept beneath the counter, behind which was a fire which was kept burning throughout the winter. No water had been added to the saffron, but it was very liable to absorb moisture from the air, and the excessive quantity found in it was probably due to the fact that Longrock was near the sea and defendant's shop occupied a low position. The defendant said he did not buy saffron at a reduced rate, and this was the best it was possible to obtain. His son, William G. Tuckett, who manages the Longrock shop, asked to explain the cheapness of the saffron he sold compared with that on sale in Penzance, said he supposed it was because some one was profiteering. Mr. Trewavas, the Penzance representative of the wholesale firm supplying the saffron in question, said he had communicated with the firm, who had replied that they analysed it before it was sent out in August, and were satisfied that it was of good quality. It was finest Valencia saffron. Before giving their decision the magistrates decided to hear a similar summons against Nicholas James Stevens, grocer, Longrock. In this case also the county analyst certified that the sample contained an undue amount of moisture. The presiding magistrate said the Bench did not think there had been any fraud, or an endeavour to defraud, in either of the cases, but a technical offence had been com-

mitted. A fine of 5s. was imposed in each case, and upon the application of the prosecution the defendants were also ordered to pay half the analyst's fee.

**Patent Rights Dispute.**—In the Chancery Division of the High Court, London, on January 12, Mr. Justice Romer commenced the hearing of an action brought by the Commercial Solvents Corporation, Ltd., Featherstone Buildings, W.C., for an injunction restraining the alleged infringement by the Synthetic Products Co., Ltd., City Road, E.C., of their patent, No. 4,845 of 1915, for a process for the manufacture of acetone and normal butyl alcohol. The defendants contended that the patent was invalid, and counterclaimed for its revocation on the ground that it was obtained in fraud of their rights or the rights of Professor Auguste Fernbach and Mr. Edward Halford Strange, through whom the defendants claimed to be entitled to a beneficial interest. Sir Arthur Colefax, K.C., Sir Duncan Kirby, K.C., and Mr. Trevor Watson appeared for the plaintiffs; Mr. James Whitehead, K.C., and Mr. Swan were for the defendants.

### THE PLAINTIFFS' CASE

Opening the case, Sir Arthur Colefax stated that the patent in question was granted to Dr. Weizmann, who was a distinguished man of science, and was also honourably known in relation to the Zionist movement. The subject-matter of the patent was the production by the agency of bacteria from the starch of maize or other grain of acetone and normal butyl alcohol. It was an invention of real importance, and was of the greatest use to this country in the war, because acetone was largely used in the making of cordite. From 1915 or 1916 acetone was made by the use of Dr. Weizmann's invention. On the issue of invalidity raised by the defence the allegations were (1) that Dr. Weizmann obtained this invention from others, and patented it in fraud of the rights of the inventors; (2) want of novelty based on one prior specification and prior user; and (3) insufficiency of description. Proceeding to deal with the history of the case, Sir Arthur said that about 1910 certain gentlemen at the instigation, he thought, of Mr. Strange tackled the question of producing rubber artificially. The service of Professor Perkin, now Professor of Chemistry at Oxford, were obtained, and he enlisted the help of Dr. Weizmann, who was at Manchester University at the same time as Professor Perkin. Investigations took place partly in this country and partly in France, where through the instrumentality of Dr. Weizmann the help of Dr. Auguste Fernbach, professor of the Pasteur Institute, was enlisted. It was alleged that Dr. Weizmann obtained the invention, which was the subject of the patent in dispute, from Dr. Fernbach and Mr. Strange and patented it. That was a serious issue, but one which he (counsel) approached with confidence. With regard to the issue of prior user, if the plaintiffs were right the defendants had never been able to accomplish what was possible by this invention, nor did they appreciate the possibility of doing it by this invention. They had never produced acetone or normal butyl alcohol by the agency of bacteria isolated by Dr. Weizmann, which had the particular properties which had made the invention such a success. The questions that would arise in the course of the case were: (1) Who was the inventor of the process described by the specification of the patent now in question—Dr. Fernbach and Mr. Strange, or Dr. Weizmann? (2) Were the defendants using the process which was the subject of the patent at the date when the patent was granted to Dr. Weizmann, or were they using a process which was taken out in 1916 by the Government, who ceased to use it and substituted Dr. Weizmann's process? The defendants had works at King's Lynn and Rainham, and the alleged infringements took place at King's Lynn. In their defence the defendants said that the invention at the date of the patent was not a new manufacture within the meaning of Section 6 of the Statute of Monopolies, by reason of the fact that the process in the invention was commercially worked by them at Rainham from 1912 to 1914, and at King's Lynn from then until May 1916. As to the defence of insufficient description, the defendants said that the patent did not particularly describe and ascertain the nature of the in-



vention. There was another action in his lordship's list in which the present defendants were plaintiffs with Strange and Graham, Ltd., and Dr. Weizmann was defendant; and in that action the plaintiffs claimed an injunction restraining the defendant from disclosing alleged confidential information, and a declaration that the defendant obtained certain patents, including the one now in question, as trustee for the plaintiffs. The hearing was adjourned.

Continuing the history of the case when the hearing was resumed on January 13, Sir Arthur Colefax stated that in consequence of a disagreement between Dr. Perkin and Dr. Weizmann, the latter severed his connection with the researches into the possibility of producing synthetic rubber, and returned to his duties at Manchester University, where he was appointed reader in bio-chemistry. He proceeded to make a complete study of the literature on questions of fermentation. He experimented for two years, when he made the discovery which resulted in the patenting of his process. On April 19, 1915, there was a contract between the defendant company and the Government for the supply of acetone. The bacteria concerned in the process used were still being held at the Bank of England and at Woolwich, and counsel said he was in a position to say that the Government would allow the tubes to be opened and the bacteria inspected. It was not the bacillus used in the Weizmann process. The Government became dissatisfied with the results, as the defendants were unable to produce more than about a ton a week, and ultimately substituted Dr. Weizmann's process. His lordship asked whether he had not really got to decide between the bacillus of Dr. Weizmann and that of Professor Fernbach. Sir Arthur Colefax said that was so. Referring to the issue of prior user, counsel said that the defendants had handed to the plaintiffs a tube of bacteria which was said to be either the cultures or sub-cultures employed in the prior user. It was labelled "X160 from Lynn culture, orig. barley at Rainham 1912," but inspection showed that it was not the bacillus used in the process the defendants were working. They had also handed the plaintiffs another bacillus, No. 251, which was said to be the bacillus with which the infringing acetone and butyl alcohol were made, and No. 251 was the bacillus of Dr. Weizmann. None of the documents in the case gave any ground for saying that there was any publication of the direct fermentation of maize by any bacillus, and therefore not by "X160." The hearing was again adjourned.

## Festivities

### Leicester Assistants' Party

THE members of the Leicester Pharmaceutical Assistants' Association held their annual Christmas party on January 7 at the Victoria Hall, Mill Hill Lane, which had been gaily decorated for this event. About 170 participated. Games, a concert party, supper and dancing filled the evening until midnight, everyone going home very pleased and very tired.

### A Staff Dinner

THE annual dinner of Hodgkinson, Prestons & King was held in London on January 11, when a gathering of upwards of 70 was presided over by Col. A. C. Preston, who was supported by his partners, Mr. H. C. Preston and Mr. W. J. Beardsley. A good dinner was followed by a concert in which seven artists took part. The toasts to the staff, firm and visitors were given, the chairman remarking that theirs is one of the few private firms left in the drug trade to-day. The excellent feeling which existed between employer and employees was also commented upon by the firm, the staff in their turn expressing their appreciation of these festive gatherings.

### Liverpool Chemists' Children's Party

ALWAYS a very popular event, the annual children's party, given by the Liverpool Chemists' Association on January 6, proved no exception to the rule. The venue was the Royal Institution, Colquitt Street, and the rooms were tastefully decorated for the occasion,

some of the decorations representing the Association's crest. Mr. J. L. Hirst (President) and Mrs. Hirst received the little guests, who numbered 120. The tea party was very jolly, members of the Council and the Ladies' Committee sitting down with the youngsters. Subsequently games were indulged in, and after a flash-light photo had been taken a marionette show was given by Mr. E. B. Benson. Some of the children contributed an impromptu concert programme. This included recitations by the Misses C. Lloyd and Mabel Lloyd, a display of dancing by Miss Aileen Craig, a costume dance by Miss M. Paley, a violin solo by Miss Fletcher, and a song by Miss Rita Ellick. "Father Christmas," in the person of Mr. T. Lloyd, next came on the scene with a bagful of presents. These were distributed by the President, Mrs. Hirst and the secretary of the Ladies' Committee (Mrs. Ferriday). The proceedings were wound up with a dance. The members of the Ladies' Committee, of which Mrs. A. W. Ashcroft is president, and the members of the Council of the Association, of which Mr. F. Wokes is hon. secretary, worked hard to ensure the enjoyment of the children. The handsome Christmas tree, given by John Thompson, Ltd., was illuminated with electric lights by Mr. Marten Hughes.

### East Metropolitan Dinner and Dance

THE East Metropolitan Branch of the Pharmaceutical Society held a dinner and dance at Lever House Restaurant, London, E.C.4, on January 7, the chairman, Mr. L. A. E. Kirkpatrick, presiding. Among those present were Miss Kirkpatrick, Mr. and Mrs. A. R. Keith, Mr. and Mrs. Herbert Skinner, Mr. and Mrs. Gwinn, Mr. and Mrs. Wathen, Mr. and Mrs. Potter, and Messrs. P. F. Rowsell (President of the Pharmaceutical Society), J. P. Ellerington, and F. A. Lawman. In proposing the toast of "The Pharmaceutical Society of Great Britain," Mr. A. Catto mentioned that in no district would Mr. Rowsell, whom he characterised as an ideal President, receive a greater welcome than in that represented there. Mr. Rowsell, in his reply, said this was a toast which pharmacists delighted to honour. The Council had a duty to perform, and he was sure that the considered judgment of the members of the Society would be that it does its work well. He could hardly understand why there was such a fuss over the Labelling of Poisons Order, as it was in the interests of chemists that it was brought about, and he pointed out that it was impossible to conserve rights without incurring some trouble. It was not so much trouble to alter the labels, and all the difficulties had now been overcome. He urged chemists to live up to the status of their calling, and pharmacy had an even brighter future than it had a past. The "East Metropolitan Branch of the Pharmaceutical Society" was proposed by Mr. Herbert Skinner, who, after alluding to the fact that the nucleus of the Branch was West Ham, said he had always regarded himself as their representative on the Council, but he had now in some respects to take a back seat. ("No, no.") He was, however, still with them, and it gave him great pleasure to associate with the toast the name of Len. Kirkpatrick, whose father and he (the speaker) had been colleagues. Mr. Skinner paid a tribute to the work of Mr. Kirkpatrick, from whom there was no stancher supporter of the Society. In his response, the chairman expressed the opinion that the branches would be a valuable asset of the Society, and he hoped the day would soon come when every chemist would have to be a member of the Society, so that in future legislation they would fight as a united body. Dancing commenced about 9.30 p.m.

**PRICE CUTTING.**—A questionnaire sent out to the 52,500 druggists of the United States, asking their views as to price cutting, brought out the fact that 90 per cent. of the trade in the United States is bitterly opposed to this form of competition. The canvass was conducted by a big Seattle firm, and occupied ten months, costing \$38,000. Replies were received from 27,080 druggists—a return of better than 50 per cent. Out of this total, according to "Printers' Ink," 24,132 expressed themselves as being bitterly opposed to price cutting. An additional 2,519 opposed price cutting except during sales of limited duration; only 268 favoured price cutting unqualifiedly, and 161 had no opinion on the subject.



## New Companies and Company News

P.C. means Private Company and R.O. Registered Office

M. D. LEHMANN (1925), LTD. (P.C.).—Capital £250. Objects: To carry on the business of chemists' and hair-dressers' sundriesmen; fancy goods merchants, etc. R.O.: 50 Doughty Street, London, W.C.1.

SHACKLETON'S CASH CHEMISTS, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of chemists, druggists, analysts, herbalists, opticians, oil and colour men, etc. R.O.: 212 Bath Road, Hounslow.

BRITISH VERMICIDES, LTD. (P.C.).—Capital £100. Objects: To carry on the business of vermicide manufacturers and exterminating contractors, manufacturers of chemicals, drugs and disinfectants of all kinds, fumigators, sprayers, etc. R.O.: 12 Clarges Street, Mayfair, London, W.1.

BRITISH TALLOW CORPORATION, LTD. (P.C.).—Capital £100. Objects: To carry on the business of tallow makers and chandlers, soap and candle makers, chemical manufacturers, distillers, refiners, importers, exporters, chemists, druggists, etc. R.O.: 11 Aldwych, London, W.C.2.

HARRY J. G. KRAUSE, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists and druggists, photographic dealers, opticians, and dealers in toilet and fancy goods, etc. The directors are: H. J. G. Krause and Elsie A. Krause. R.O.: Fish Dock Road, Great Grimsby.

OSWALD M'CARDELL & Co., LTD. (P.C.).—Capital £7,000. Objects: To acquire the business of manufacturing chemists, drysalts, laundry and cleaners' specialities and aniline colour merchants, now carried on by Oswald M'Cardell & Co., Stretford, Lanes. R.O.: Stretford Chemical Works, Low Moss Lane, Barton Road, Stretford.

G. S. HAY & Co., LTD. (P.C.).—Capital £100. Objects: To acquire any invention relating to the manufacture and use of emulsions of all kinds, and of any apparatus therefor, and to carry on the business of manufacturing chemists, chemical manufacturers, chemists, druggists, etc. The directors are: G. S. Hay and R. Spencer. R.O.: Norway House, 21-24 Cockspur Street, London, W.1.

VINTS (CASH CHEMISTS), LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a drug stores, carried on by A. Vint and A. S. Vint, at 302 Harehills Lane, Leeds, as "Arthur Vint & Son," and to carry on the same and the business of chemists, opticians, dentists, manufacturers of and dealers in patent and proprietary medicines, etc. The directors are: A. Vint and A. S. Vint.

WICKHAM & GREGORY, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, drysalts, oil and colour men, importers and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations and articles, dealers in electrical, chemical, photographic, surgical and scientific apparatus and materials, etc. The directors are: T. B. Wickham and C. T. Gregory. R.O.: 1A Wellfield Road, Cardiff.

CARTER & SONS (SHEFFIELD), LTD. (P.C.).—Capital £100,000. Objects: To adopt an agreement with T. Carter and G. C. Carter, and to carry on the business of chemists, druggists, drysalts, grocers' sundriesmen, oil and colour men, manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations, compounds, cements, oils, paints, pigments, and varnishes, box makers, cardboard manufacturers, etc. The directors are: T. Carter and G. C. Carter. R.O.: Attercliffe Road, Sheffield.

Q S. SOAP PRODUCTS, LTD. (P.C.).—Capital £15,000. Objects: To adopt an agreement with W. & F. Walker, Ltd., and Stuart & Douglas, Ltd., and to carry on the business of soft and other soap manufacturers, manufacturers and refiners of and dealers in all kinds of oils and oleaginous and saponaceous substances, pharmaceutical manufacturers and general chemists and druggists, manufacturers of and

dealers in all kinds of toilet requisites, boxes and cases, etc. The directors are: J. T. Freestone and M. Stuart. R.O.: 41 Castle Street, Liverpool.

GENOXIDE, LTD. (P.C.).—Capital £12,000. Objects: To carry on the business of chemical manufacturers and merchants, drysalts, manufacturers, buyers and sellers of and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations and articles, including the product "Genoxide," and to acquire four "Genoxide" trade-marks:—No. 455,731, class 3; No. 458,150, class 2; No. 458,151, class 47; and No. 458,152, class 48. The directors are: H. E. Alcock and H. Arnold. R.O.: Kingsway, Luton.

THE WATSON FAIRBAIRN CHEMICAL Co., LTD.—At a meeting held in London on January 5 it was resolved that this company be wound up voluntarily. Mr. H. M. Barton, Alderman's House, Bishopsgate, London, E.C.2, was appointed liquidator, and a meeting of creditors will be held at the above address on January 21.

CAMWAL, LTD.—The report for the year ended September 30, 1925 (the forty-seventh annual balance-sheet issued since the formation of the original company, states the profit, after making full provision for depreciations, is £7,395 15s. From this is deducted debenture interest £1,923 15s., leaving a balance of £5,472, which with £1,520 13s. 7d. brought forward, makes a total of £6,992 13s. 7d.; the payment of 10 per cent. on the cumulative preference shares is recommended. This will leave £2,046 11s. 7d. to carry forward. Mr. A. Lambert Foster retires from the board of directors, but offers himself for re-election. Shareholders are asked to vote the usual remuneration to the chairman and directors for the year ending September 30, 1926. The annual meeting will be held at the Midland Grand Hotel, St. Pancras Station, London, N.W., on January 21, at 12 noon.

DISINFECTANTS AND GENERAL PRODUCE, LTD.—A meeting of creditors was held on January 8 at 43 Gower Street, London, W.C. Mr. Gradon stated that he had been appointed to act as liquidator in the voluntary liquidation of the company and as receiver for the debenture-holders. It was stated that the liabilities amounted to £1,295 13s. 6d., while the assets were insufficient to meet the claims of the preferential creditors (£95 2s. 5d.). The company was incorporated in 1924, and came to an arrangement with the late Professor Lefroy whereby it acquired various formulas from him. A fair amount of export and home trade was done with various solutions. In May 1925 a preparation known as Rentokil Fly Liquid was placed on the market, but it was found that the temperature of this country was too low to give effect to the preparation, with the result that it had to be withdrawn. Professor Lefroy's death was a great blow to the company, and it was the opinion of one of the directors that had he lived the present position would not have arisen. A resolution was passed confirming the voluntary liquidation, with Mr. Gradon as liquidator.

BOOTS PURE DRUG Co., LTD.—An extraordinary general meeting was held at the Station Street offices, Nottingham, on January 12, for the purpose of increasing the capital to £2,000,000 by the creation of 500,000 new ordinary shares of £1 each. Mr. John C. Boot, J.P. (vice-chairman of directors), who presided, in the course of his speech, said they were aware from statements he had made at the annual meeting during the past five years that large extensions have been made out of profits. As this money might have been used to pay increased dividends, the directors felt that it is only fair to issue a script bonus which will represent some of this outlay. As there appears to be a certain amount of misunderstanding, the chairman made it clear that no cash will be paid out, and that as a result of this issue the proportion of assets now represented by two shares will in future be represented by three. Naturally they would not expect the company to pay the same rate of dividend on the increased capital, as this would mean paying an extra £180,000, and, whilst the directors were optimistic as to the future, they do not expect to increase profits at this rate, and the next interim dividend will be at the rate of 6 per cent. per quarter. The resolutions were carried unanimously.



## Pharmaceutical Society of Great Britain

### Evening Meeting in London

THE third evening meeting of the winter session was held on January 12, at 17 Bloomsbury Square, London, W.C. Mr. P. F. Rowsell (President) occupied the chair, and supporting him was Sir William Glyn-Jones (secretary) and Mr. Edmund White, also Miss Dorothy G. Randle, who had collaborated with Mr. Frank Browne, the speaker of the evening. The attendance was less numerous than at previous meetings this session, despite the interest of the subject. Among those present were: Professor Greenish, Messrs. A. H. Jenkin, J. P. Gilmour, Greenwood Watkins, H. Finnemore, H. Wippell Gadd, E. T. Brewis, A. R. Melhuish, F. E. Bullen, R. Fouracre, Harold Deane, J. P. Ellerington, and C. G. Bonner. The President said that it was unnecessary to give Mr. Browne anything more than a brief introduction, as he was too well known to most of them. He (Mr. Browne) had done most excellent work on the British Pharmaceutical Codex, and in his paper that night had been assisted by Miss Dorothy Randle. Mr. Rowsell made brief reference to the history of the Codex, and pointed out that it was always kept up to date. Any observations or suggestions from practical pharmacists are closely considered and tried out. A tribute was paid to the Science Committee and its chairman (Mr. E. White) for their work in relation to the Codex. He had much pleasure in calling upon Mr. F. Browne for his paper on

### Some New, Modified and Tested Formulas of the British Pharmaceutical Codex

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#### [ABSTRACT]

The British Pharmaceutical Codex contains more than 1,300 preparations marked "B.P.C.," as distinguished from about 1,000 additional preparations taken from various other sources, such as those designated "B.P." and "U.S.P." As soon as the revised edition was published in 1923 endeavours were made to encourage criticism of either new or old formulas. Instructions were received through the Science Committee that all formulas stated to be unworkable or unsatisfactory in any way should be investigated with a view to improvement.

*Elixir Diamorphine et Pini Compositum*.—There were several complaints that this elixir deposited crystals, sometimes in large quantity; also that a considerable amount of the oil of pine was left in the filter. A quantity of the B.P.C. preparation was made strictly in accordance with the formula, and was made up to the required volume with syrup before filtration. It was found that filtering through talc and calico was very slow, and in consequence there was considerable evaporation, and after forty-eight hours there was a considerable deposit of crystals. These were found to consist almost entirely of sugar. Owing to this difficulty of filtration, it was evident that a radical change was necessary, so the following procedure was adopted, replacing the syrup with 8 oz. of sugar in powder, and using purified talc or kaolin  $\frac{1}{2}$  oz. for one pint of the elixir:—

Dissolve the terpin hydrate and diamorphine hydrochloride in the alcohol, mix the solution with the glycerin; add the oil of pumilio pine, shake vigorously, and add the talc or kaolin and gradually six fluid ounces of water, well shaking. Filter through paper, and in the filtrate dissolve 8 oz. of sugar, warming slightly if necessary. Add the tincture of saffron and water to produce the required volume.

It was found that this preparation, kept in completely filled bottles, showed a very small quantity of crystals at the top of the bottle after a few days. It was thought that by reducing the volume of glycerin to one-half that even this small quantity of crystals might be prevented, but experiments showed that this was not the case. The amount was hardly noticeable, and they were found to consist of terpin hydrate. Their formation at the surface of the liquid appears to be due to the evaporation of the alcohol used. No deposit of sugar has been found in the preparation thus prepared. With regard to the amount

of oil of pine left in the filter, this is undoubtedly considerable, but, as the constitution of the oil is such that there must be some insoluble portion, no change has been made in the amount directed. From the formulas described in this paper it will be apparent that preparations containing volatile oils may be made in practically the same manner. Attention is drawn to this, as doubtless in pharmacy it is of advantage to have not only good formulas, but also a definite process for making preparations of the same type.

*Elixir Diamorphina et Terpini*.—This preparation was said to deposit crystals either of sugar or of terpin hydrate, but experiment has shown that even after two years no crystals have appeared.

*Elixir Pini Compositum*.—Made in various ways, it was found that a slightly cloudy preparation resulted, the cloudiness appearing on the addition of the glycerin. The filtration with talc effected no improvement, and may therefore be omitted. As glycerin is an essential part of the preparation, the cloudiness seems to be unavoidable. It is, however, so small as to be unobjectionable. Incidentally, it may be mentioned that nearly all these preparations lose colour owing to change in the colouring matter of the saffron. It would be better to add in the third line of the directions, after the word "glycerin," the words "slightly warming." In connection with these elixirs, in order to obtain a better idea of the precipitating effect of glycerin on a solution of sugar, the solubility of sugar was determined by two methods. Seven parts of sugar dissolved in 100 of glycerin at 20°.

*Elixir Simplex*.—It has been stated that this preparation does not keep. Prepared in accordance with the formula it has kept well for two years.

*Emulsio Olei Morrhue*.—Also said not to keep well. Prepared according to the formula it has kept well for twenty months.

*Emulsio Olei Morrhue Composita*.—Also said not to keep well. Prepared according to the formula, has kept well for two years. Probably the cause of the emulsion going bad on some occasions is the use of inferior eggs.

*Emulsio Olei Oliva Composita*.—Said to be difficult to make. This preparation has been found to be made without difficulty, and has kept for two years.

*Emulsio Petrolei cum Glycophosphatibus*.—Said not to keep well, but prepared according to the formula has kept well for two years.

*Emulsio Petrolei cum Hypophosphitibus*.—A correspondent stated that an improved formula was to replace the tragacanth with dextrin. Experiments were made in which the tragacanth was replaced by  $1\frac{1}{2}$  oz. of white dextrin for 20 fl. oz. This substitution did not give any better preparation. The original formula is quite good and the emulsion keeps well, although there is some separation on keeping. A moderate shaking, however, renders the emulsion stable for some time.

*Extractum Cascara Liquidum Miscible*.—The objection to the present formula has been stated to be that it is nauseous and too alkaline; also that it does not keep. It is certainly nauseous and is not so pleasing as some proprietary kinds. Apart from its unpleasant taste, it is a good and elegant preparation, and keeps well.

*Glycerinum Thymol Compositum*.—It has been recommended that the amount of talc to be used should be stated. Half an ounce to one pint of the preparation should be specified in the formula. On line 4 of the directions, a slight change is necessary. Instead of adding the mixture gradually to the solution of salts, the solution of salts is best added to the mixture. Another complaint was that when a coloured preparation was filtered through kaolin, some of the colouring matter was absorbed. Experiments showed that this was the case, consequently it has been found to be better in the case of this preparation to pass sufficient distilled water through the filter to make up nearly to the required volume, then to add the solution of carmine and adjust the volume if necessary.

*Linimentum Album*.—The oil of lemon is stated to be unnecessary, as the odour disappears after a few hours. This has been found to be the case. There seems to be no reason for retaining this oil of lemon.

*Liquor Cresol Glycerinatus*.—The formula of this preparation was closely examined with a view to the adop-



tion of a synonym—lysol, B.P.C. It was particularly required that the preparation should be very miscible with water and should have but little alkalinity. It was found that the B.P.C. preparation was excellent in these two respects. From the formula it will be seen that for 16 oz. by weight of lysol, B.P.C., theory requires 289 gr. of potassium hydroxide, and 297½ gr. is ordered. The Codex directions allow considerable latitude as to the method of preparation, and have been so framed as to permit the use of a sand-bath and of a reflux condenser. The best method is to heat on a sand-bath using a reflux condenser, although the latter apparatus is not essential. During the experiments some tests were made on the partially completed preparation, that is, on the preparation which did not mix perfectly with water. It was found that with such after a few days the desired miscibility was reached. The preparation is exceedingly stable. When freshly made it throws down a very small flocculent deposit after standing for twenty-four hours, from which, when made on the manufacturing scale, it would, of course, be decanted, as thereafter it remains clear. The finished preparation was compared with eight of the proprietary and other brands of lysol, including the original German lysol. Experiments were conducted with a view to ascertaining (1) the depth of colour, (2) miscibility with water, (3) alkalinity, and in all respects the B.P.C. preparation was found to be satisfactory.

**Liquor Pancreatici.**—This has been stated not to keep well. Prepared according to the formula, it has kept well for two years.

**Liquor Thymol Compositum.**—There has been a general complaint that this preparation is not sufficiently strong, and that the formula should be changed so as to meet the want of prescribers. The following formula gives a preparation of a dark straw colour, which keeps indefinitely, and remains clear and bright. The taste is decidedly stronger than that of the 1923 preparation:—

Boric acid	...	...	...	254 grains
Benzoic acid	...	...	...	10 grains
Menthol	...	...	...	3 grains
Thymol	...	...	...	5 grains
Eucalyptol	...	...	...	12 minims
Oil of peppermint	...	...	...	3 minims
Methyl salicylate	...	...	...	3 minims
Oil of thyme	...	...	...	3 minims
Tincture of baptisia	...	...	...	1 fl. oz.
Alcohol	...	...	...	5 fl. oz.
Purified tale	...	...	...	½ oz.
Distilled water	...	...	to	20 fl. oz.

Dissolve the boric acid in 14 fluid ounces of the water, and add the benzoic acid previously dissolved in 3 fluid ounces of the alcohol. Dissolve the menthol, thymol, eucalyptol, methyl salicylate, and volatile oils in the remainder of the alcohol, and add the tincture of baptisia. Add this solution to the purified tale contained in a bottle and shake vigorously. Add very gradually the solution of acids, with constant shaking. Allow the mixture to stand, with occasional agitation for forty-eight hours, then filter and make up to the required volume with distilled water. (The period of waiting seems unnecessarily long, and probably might be reduced to two hours.)

Dose, -3 to 20 decimils (5 to 30 minims) largely diluted with water.

The tincture of baptisia is prepared by percolating baptisia root in No. 40 powder with 60 per cent. alcohol; strength of tincture 1 in 10.

**Lotio Quinine.**—The complaint here was that the odour was not pleasant. The following formula has been found to give a preparation which is more satisfactory in that respect:—

Quinine hydrochloride	...	0.11	10 grains
Chloroform	...	0.52	50 minims
Alcohol	...	20.00	4 fl. oz.
Cologne spirit	...	14.00	2 fl. oz. 384 minims
Essence of stephanotis	...	2.00	192 minims
Compound spirit of pimento	...	2.00	192 minims
Glycerin	...	1.56	150 minims
Tincture of eudbear	...	3.12	300 minims
Rose water, diluted	to	100.00	to 20 fl. ozs.

The original instructions for making may be followed. The difficulty that has presented itself is in connection with essence of stephanotis, for which there is no formula in the Codex, and the essence as supplied by manufacturers is likely to be variable. It is usually a mixture

of synthetics with a liberal addition of natural concrete soluble tuberoses. It has been thought best to indicate what is wanting as regards this formula with a view to any suggestions from members.

**Lotio Staphisagria.**—A recommendation has been made that the B.P.C. preparation should contain the same ingredients as the formula given in the Pharmacopœia of the London Hospital. This preparation was found after several months to show a deposit, while the B.P.C. preparation has remained clear after two years. There does not appear to be any advantage in changing the formula.

**Parogenum Spissum.**—A suggestion has been made that the liquid paraffin should be replaced with soft paraffin so as to obtain a somewhat harder preparation. The preparation was made according to the B.P.C. formula, and it was found that the Codex instructions are to continue heat until the resulting product weighs eighteen ounces. However, it was found that the total amount that could be lost during evaporation was only, at most, a few grains. As such a trifling amount of evaporation did not appear to be intentional, and is not easy to carry out, the resulting product has been evaporated to seventeen ounces by weight. This has given a satisfactory preparation.

**Pasta Hamamelidis.**—A number of recommendations have been made that this preparation should be so altered that a medicament having a pearly appearance results. It has been found that the following formula, given by Mr. W. A. Poucher in "The Pharmaceutical Journal," 1925 [1], 441, possesses the properties desired:—

Stearic acid	...	...	...	200 grams
Oleic acid	...	...	...	40 grams
Potassium hydroxide	...	...	...	10 grams
Distilled water	...	...	...	300 mils

The acids are melted together, and the hot solution of alkali poured in while the whole is briskly stirred and the heat maintained. The agitation is continued while cooling and until a creamy product results.

It has a pearly appearance, becoming more pronounced with use, and does not greatly shrink in bulk on keeping. Suitable perfume must be added, otherwise there is a tendency to mouldiness in course of time. It was found that a temperature not exceeding 30° throughout produced a satisfactory preparation.

**Pasta Methyl Salicylatis Composita.**—It has been reported that the sodium carbonate used in this preparation should be specified as exsiccated. Experiments showed that the present formula is satisfactory, and results in a better preparation than with the use of the dry material. It might, however, be noted in the instructions that time is needed for the formation of the cream, which does not appear until about half an hour after the mixture has been poured into the bottle.

**Spiritus Saponis Kalini.**—Objection has been taken to this formula on account of the potash, that is linseed-oil soap, being less generally in pharmaceutical use. The preparation made with ordinary soft soap is of a green colour, and is more free from deposit than the B.P.C. preparation. As, however, it was desirable to obtain some idea of the detergent value, specimens were handed to Mr. C. H. Hampshire with a view to some clinical experiments. The results of these showed that the ordinary soft soap preparation would be quite as detergent, and, on account of the ease with which the ingredients can be obtained, would be more useful in practice.

**Syrupus Acidi Citrici.**—It has been stated that this preparation deposits crystals; also that the lemon flavour is impaired by the citric acid. It has been found that a small quantity of crystals separates out in cold weather, but re-dissolves at an ordinary summer temperature. The addition of one fluid ounce of water has been found sufficient to give a good and well-keeping preparation. The flavour was not impaired after eight months' keeping.

**Syrupus Apomorphinae.**—It has been stated that this syrup deposits crystals. However, this has not been found to be the case. With a view of seeing whether any improvement in keeping properties would be obtained by adding more water, preparations have been made, one containing double the amount of distilled water ordered in the formula, and the other containing four times



It was found that the two latter preparations were inferior, and when kept in the dark were coloured more deeply than the B.P.C. syrup, which acquired very little colour even after two years' storage. It was noted that the addition of water was favourable to the formation of a black deposit in those preparations exposed to light. The B.P.C. formula needs no change.

#### DEPOSIT IN "CHEMICAL FOOD"

*Syrupus Ferri Phosphatis Compositus*.—This preparation has been said to deposit, particularly in partially filled bottles. Statements have been made also that this deposit may be prevented by the addition of a small quantity of hydrochloric acid, also by citric acid. Experiments were first made with a view of observing the deterioration of the B.P.C. syrup in partially filled bottles, and it was found that while the syrup in filled bottles has kept well and given only a slight deposit even after two years, the partially filled bottle showed a small precipitate which was particularly noticeable after two months. In order to see if this precipitate could be avoided, specimens were prepared containing viij. of diluted hydrochloric acid in 1 oz., and also other samples containing 1½ gr. of citric acid in 1 oz. The resulting preparations showed no improvement over the B.P.C. syrups. It was suggested that the replacement of 2 oz. of sugar by glucose might be an improvement, but this was not found to be the case. On account of the popularity of this syrup as a domestic remedy, and particularly as commercial specimens are supplied which are very palatable to children, two of these were examined. These two specimens had the reputation of remaining clear. These were certainly very palatable and gave little or no deposit, but from the taste appeared to contain very much less iron. Experiments were made with a view of seeing whether the amount of phosphoric acid could be reduced in the B.P.C. syrup, but it was found that even a slight diminution produced a syrup which was not stable. It has been suggested, however, that the B.P.C. preparation diluted with an appropriate volume of syrup would supply the need for one containing less iron, similar to kinds appreciated by the public.

*Syrupus Ficorum*.—The B.P.C. preparation has been stated to decompose after a few days on account of the deficiency of sugar. The preparation was found to keep well. After eight months a slight precipitate formed and the taste and odour were a little mouldy. Another specimen containing additional sugar did not behave any better. If there is no objection it seems to be advisable to add some preservative.

#### THE TROUBLESOME GLYCEROPHOSPHATES

*Syrupus Glycerophosphatum Compositus*.—The present formula has been the subject of many complaints, the chief of which is that the syrup prepared according to the instructions may be clear at first, but deposits after a few days and sometimes after a few hours what is usually termed a slimy precipitate. The use of 4.8 minims of glacial acetic acid in 5j. of the syrup has been recommended. This addition was found to be very satisfactory and ensured stability over eight months, and after two years the syrup has remained practically free from deposit. The opinion, however, has been expressed that the smell of the acetic acid is objectionable. Attempts were thereupon made to replace the acetic acid with citric acid, from which good results were hoped for, particularly as the washed deposit resulting from the B.P.C. syrup had been found to consist entirely of ferric phosphate. This addition has been found to give a very stable preparation of which the palatability has been increased by the addition of the acid. In the carrying out of these experiments it had been noticed that it was possible to obtain a clear syrup using a temperature not exceeding 40° throughout. This point as regards temperature is of importance, as under "Acidum Glycerophosphoricum, B.P.C.," will be found a statement that "when heated with water, glycerophosphoric acid is decomposed into glycerin and phosphoric acid." Any phosphoric acid produced would be likely to increase the amount of ferric phosphate precipitated. It had been found that should the B.P.C. directions be followed and the caffeine and strychnine be dissolved in the glycerophosphoric acid,

using gentle heat if necessary, solution was effected with difficulty, much more than a gentle heat being required, and even then there was a danger of the alkaloïds coming out on a moderate diminution of temperature, and when room temperature is reached the product is solid. By the addition of water to the glycerophosphoric acid it is possible to make a solution at 40°, which remains stable quite sufficiently long to complete the syrup. In the experiments the greatest care has been taken to obtain the purest glycerophosphoric acid and salts obtainable, but it must be borne in mind that a certain amount of impurities is permissible. Consequently it does not seem to be possible to have a stable syrup without the use of a solvent material such as citric acid. It has been found the precipitate soon attains a maximum, mostly after a few days. Probably some may prefer to allow this deposit to settle and to decant the clear syrup. The following are the complete directions for making the syrup. To the ingredients stated in the Codex should be added citric acid 30 grains, and the refined sugar should be in powder:—

Dissolve the iron glycerophosphate in 20 (4 fluid ounces) of the water, and add a solution made by heating the caffeine and strychnine with the glycerophosphoric acid and 20 (4 fluid ounces) of the water to a temperature not exceeding 40°. Add the calcium, magnesium, potassium and sodium glycerophosphates, the citric acid, and the glycerin, and mix. Add the sugar and allow to stand until the solution is clear, warming gently if necessary, and stirring occasionally. Strain through twill calico, add the chloroform dissolved in the alcohol, and the tincture of cudbear, and make up to the required volume with distilled water.

*Syrupus Menthae Piperitæ*.—The present preparation is unsatisfactory, as the oil separates. A new formula which has not this disadvantage is submitted:—

Oil of peppermint	...	...	...	60 minims
Alcohol	...	...	...	2½ fl. ounces
Purified talc	...	...	...	1 ounce
Sugar, in powder	...	...	...	12 ounces
Water	...	...	...	to 20 fl. ounces

To the talc add the oil dissolved in the alcohol, add gradually ten fluid ounces of water, shaking well. Filter through paper, dissolve the sugar in the filtrate, and add water to the required volume.

*Syrupus Pini*.—Although this preparation is ordered only to be strained, the time required for this may be excessive; also the yellow colour is liable to fade. The present method of mixing the substances in the formula has been altered with a view of adding the tincture of saffron at the end, and also filtering at an early stage. When in large quantity, which might have to be kept for a considerable time, it would be useful to add the tincture of saffron at the time of dispatching the preparation. To the B.P.C. formula, instead of "a sufficiency" of purified talc or kaolin, use ½ oz., replace the syrup with sugar, in powder, 10 oz., and water to 20 fl. oz. Triturate the oil of pumilio pine with the talc, adding gradually the alcohol, glycerin and 7 fl. oz. of water, and filter through paper. Dissolve the sugar in the filtrate, warming gently if necessary. Add the tincture of saffron, and water to produce the required volume.

#### NON-STAINING IODINE OINTMENT

*Unguentum Iodii Denigrescens*.—Of a number of objections to the present formula, the principal is that the Codex orders a proprietary preparation, namely, Vaseline. In a paper on "Stainless Iodine Ointment" W. R. Pratt and Professor H. L. Smith draw attention to the loss of iodine that is sustained from heating the constituents in an open vessel. They say also, "If the iodine is required in the combined state, a soft paraffin should be chosen with sufficient unsaturated hydrocarbons present to absorb all the iodine, and a carrier should be employed." Evidence was taken by the Codex subcommittee that there were some samples of soft paraffin which would not combine with the iodine, but that Vaseline was always satisfactory in this respect. In a note on "Stainless Iodine Ointment"† H. B. Mackie and Edna Sharman reported that "we found that working with the formula and method of the Codex, even under the controlled conditions of the laboratory, it was practically impossible to keep the loss of iodine

\* "P.J.," 1915, II, 544.

† Y.B., 1924, 748.



below 22 per cent. The temperature was not permitted to rise above 50°." They recommended two formulas, of which one has been selected for the purposes of the Codex. This is: Iodum, 5; Ol. Arachis, 10; Paraff. Moll. to 100. Their method was: "Rub the iodine with the oil in a warm mortar until solution is effected. Add the melted soft paraffin, mix thoroughly, transfer to an evaporating basin, and heat gently on a water-bath until combination is complete, as indicated by the development of a greenish colour." It seemed desirable to ascertain what was the exact effect of heat on the B.P.C. ointment. It was found, after experimenting with three samples, that, in order to prevent loss of iodine, it is necessary to avoid the use of an open vessel. A series of experiments was then instituted using a wide-mouth stoppered bottle. The method was to rub the iodine with the arachis oil in a warm mortar until solution is effected, add the soft paraffin, and mix thoroughly. When the mixture was heated to a temperature of 50° there was no fear of the stopper being blown out. When the iodine was rubbed with the arachis oil in a warm mortar until dissolved, and the soft paraffin added, combination was very slow in the cold, and the mixture at first presented a dark brown colour, and showed much free iodine after 24 hours. After 42 hours the mixture acquired a darker colour and still showed a little free iodine when rubbed on the body, which, however, disappeared at the end of 48 hours. Again, when the iodine was rubbed with the arachis oil in a warm mortar and allowed to stand for 48 hours, a very black solution resulted. When this was mixed with an appropriate amount of soft paraffin, a dark brown mixture resulted which became gradually darker as the iodine entered into combination with the soft paraffin. Although no iodine in the finished preparations was seen, as observed from rubbing them into the body, the combination seemed to be so loose that some portion was easily removed when free iodine was determined by dissolving 5 grams of the ointment in carbon tetrachloride, adding a solution of potassium iodide and water to 100 c.c. and then titrating with standard sodium thiosulphate (Pratt and Smith's method). The following table shows the amount in each of the specimens:—

---	A	B	C	D	E	F	G	H	J
Free iodine	0.53 0.58	0.41 0.41	0.13 0.18	0.98 0.98	0.67 0.78	0.93 0.94	0.81 0.83	0.47 0.48	1.21 1.30
Total iodine	3.11 3.12	3.35 3.44	2.37 2.43	4.97 5.18	4.64 4.70	4.95 5.24	4.91 5.18	4.49 4.53	Not assayed

It will be gathered from the above experiments that by using the formula of Mackie and Sharman it will be possible to use any form of soft paraffin, thus doing without the proprietary kind; also that, if necessary, the ointment may be made, if sufficient time be permitted, without the use of any heat at all. When it is required to make the ointment within an hour or two, a closed vessel must be employed, and a temperature of 50° will be found sufficient and safe, and should be continued for one hour. The soft paraffin used should be yellow. The ointment prepared according to the formula is of good consistence at all ordinary temperatures. To assay, about 2 grams is accurately weighed and mixed with halogen-free anhydrous sodium carbonate. This mixture is placed in a porcelain crucible of suitable size, filled to the top with a further quantity of sodium carbonate, and inverted, in a platinum dish; the crucible is then completely buried in sodium carbonate, and the whole mass rendered compact by pressure with a spatula. The dish is then strongly heated for 45 minutes, cooled and extracted with water; excess of decinormal silver nitrate is then added. To the alkaline solution of silver nitrate, nitric acid is gradually added from a pipette until the liquid is added. The liquid is then filtered to remove any carbon and the precipitated halide, and titrated against N/10 ammonium sulphocyanide.

*Unguentum Methyl Salicylatis Compositum Forte.*—Said to separate, and that possibly the replacement of the hydrous wool fat by wool fat would be more satisfactory. The B.P.C. ointment has been made as such, also with the change recommended, but the recommendation did not prevent a slight separation after twelve

months, while the B.P.C. preparation remained unchanged.

*Unguentum Methyl Salicylatis Forte.*—The same suggestion was made as with the preceding, and the B.P.C. ointment was found after a year to have undergone a very slight separation. In the suggested formula there was no separation, but the preparation was too hard.

*Unguentum Oleoresinae Capsici.*—All the ointments made with oleo-resin of capsicum are stated to be far too strong. This has been found to be the case, and particular experiments have been made with unguentum oleoresinae capsici compositum or chillie paste. Three grains of this when rubbed on the arm will cause intense irritation, inflammation and pain. The ointment has been tried mixed with various proportions of soft paraffin, and one part diluted to eight parts has been found to give a preparation which is still stronger than a much-used proprietary article, but is bearable. The oleo-resin of capsicum in the three ointments requires to be altered to the one-eighth proportion as recommended for unguentum oleoresinae capsici compositum.

*Unguentum Resorcini.*—This is said to separate after a time, and that it would be better perhaps to leave out the glycerin. The B.P.C. preparation was made with and without glycerin, but no separation has been noted after four months in the former. It will be better for the formula to remain unchanged.

*Unguentum Resorcini et Bismuthi Compositum.*—A suggestion was made that on account of the rubbery nature of this ointment the amount of starch should be reduced to one half. This complaint was found to have good foundation, and the ointment prepared in accordance with the recommendation is a considerable improvement, and is satisfactory.

It is the desire of the Science Committee that information on new or modified Codex formulas should be given, so that users may try them and send, if necessary, suggestions for further improvement. It would then be possible to issue a Supplement to the 1923 Codex containing sound formulas to meet the pharmaceutical requirements of the present time.

### Discussion

The PRESIDENT, in opening the discussion, said they were indebted to the authors for the exhaustive paper. There were so many subjects that, if each received attention, it would be a long time before the meeting closed.

Mr. W. BROWNE noted the comments on syr. glycerophos. co., with which he had had so much trouble. He thought acetic acid was unsatisfactory, and was glad to see that the difficulty was got over by using citric acid. Syr. menth. pip. also was troublesome, as the oil floated on the top and had to be filtered off, which was wasteful, especially at the present price of peppermint oil. He referred to a German pharmacopoeial preparation made from the leaves which, although weaker in oil, was a good preparation.

Mr. FOURACRE drew attention to gelato-glycerin where the gelatin had to soak for twelve hours, and glyco-gelatinum, which had only to be soaked till soft. Possibly the twelve-hour direction had been carried over from some old formula, as no good gelatin needed such treatment.

Mr. TODD said that many of the pharmaceutical products were not quite elegant, and put forward a plea for brighter preparations. He did not like using kaolin or French chalk for removal of excess of essential oil, and suggested that 10 per cent. of the spirit be reserved and added to the preparation after the remaining 90 per cent. spirit solution of the oil had been passed through a wet filter paper. He reminded the authors that cold weather threw out oil from a saturated aqueous solution. He pointed out also that the use of citric acid in syr. glycerophos. co. "cut across" the monograph on calc. glycerophos., which should not contain citric acid to increase the solubility. Hypophosphorous acid had been suggested, he thought, to keep syr. ferri phos. co. Could anyone, he asked, make tinct. cudbear from the B.P.C. formula and get a good yield?

Mr. MAPLETHORPE had noticed that syr. glycerophos. co. deposited when kept near a radiator. He suggested that in vapor. acid. carbol. co. it would be preferable to use liquid carbolic acid.



Mr. ELLERINGTON, in a facetious criticism, said it was much easier to sell a preparation that looks well. He suggested that a single page be added at the end of the Codex with the names of makers of the proprietaries mentioned.

Mr. EDMUND WHITE said that, in addition to looking well, preparations must be active, and two years must elapse before reporting on the product. There is a great difference in dealing with indefinite substances compared with chemical compounds. He would suggest, however, that the reports be carried a little further and that the purity of the materials used be noted. This would probably bring to light the causes of the different results by different manufacturers. He expressed his appreciation of the work that is being done.

Mr. BROWNE having "noted" the observations made, the President accorded him and Miss Randle the thanks of the meeting.

### Qualifying Examination Results

The following are the results of the Chemist and Druggist Qualifying examination of the Pharmaceutical Society, held in London during the present month:—

	No.	PART I				PART II			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for whole Examination	21	1	14	5	1	1	—	—	—
Entered for Part II and referred subject in Part I	24	—	—	3	21	—	11	4	6
Entered for Part I only	148	3	61	29	55	—	—	—	—
Referred subject in Part I only	63	1	—	11	51	—	—	—	—
Entered for Part II only	99	—	—	—	—	6	27	23	43
Referred subject in Part II	72	—	—	—	—	—	—	19	53
	427	5	75	48	128	7	38	46	102

Referred in one subject:—Botany, 37; chemistry, 9; physics, 2; pharmacognosy, 14; pharmacy, 26; pharmaceutical chemistry, 6; total, 94.

#### CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following, having satisfied the examiners in this examination, have been registered as chemists and druggists:—

Ackerman, I., Edgbaston  
Allen, S. B., Norwich  
Ayling, S. E., Shoreham  
Bates, E. J., Burton-on-Trent  
Bennett, J. N., Bredbury  
Bennett, J. R., Bodmin  
Blundell, F. H., Handsworth  
Booth, L., Kirkburton  
Bowden, J. R., N. Kensington  
Brownbill, W., Accrington  
Burbank, Marjorie, Oxford  
Cheetham, W. G., Harpurhey  
Comyns, John, Carshalton  
Conway, Martin, Manchester  
Cooper, G. J. D. E., Blackheath  
Crossley, Frank, Blackpool  
Curry, Margery E. H., Finchley  
Davies, W. E., Porth  
Dennis, W. H., Plymouth  
Evans, J. E., Carnarvon  
Fawcett, R. H., Kirkby  
Stephen

Findlay, A. W., Fulham  
Francis, E. J., N. Tawton  
Furness, George, Saltley  
Games, B. V., Senghenydd  
Gerber, Nat., Wynberg  
Griffiths, W. E., Bingham  
Gullick, F. R. G., Truro  
Harbron, T. P., Hartlepool  
Harrington, G. E., Coggeshall  
Hawkins, Margaret A., Slough  
Hessian, F. B., Warrington  
Hobbs, N. F. C., Bath  
Hodgkiss, G. T., Bolton  
Hoit, Dorothy M. V., Portsmouth  
Holley, M. A., Treforest  
Hufton, G. M., Oldham  
Hughes, Gertrude M., Aberystwyth  
Hunt, W. H., Eastbourne  
Hutchins, C. O., Neath  
Jones, D. E., Oswestry  
Jones, Janet E., Penygroes  
Jones, R. O., Criccieth  
Jones, T. B., Treherbert  
Jones, T. C., Aberystwyth

Kemp, Margaret H., Sydenham  
Kingston, W., Skelton-in-Cleveland  
Last, C. E., Watford  
Levi, Toli, Cardiff  
Llewellyn, Mary E., Codnor Park  
Lynn, Dorothy, Nottingham  
McDonald, Flora G. M., Seaforth  
Marsden, S. A., Southend  
Mattar, Rizkalla B., Hampstead  
Moore, John, Hove  
Moore, Margery H., Torquay  
Morris, J. W. J., Oldbury  
Nicholls, J. H., Birkenhead  
Noble, F. A., Hampstead  
Olding, E. E., York  
Orme, L. H., Derby  
Perry, R. F. J., Erdington  
Polson, David, France  
Radcliffe, P., Oldham  
Rees, G. M., Aberavon  
Rigg, R. G., St. Johns  
Robb, Eleanor M., Heswall  
Robinson, A. R., Aberfan  
Rubenstein, J., Llanelly  
Rubenstein, S. D., New Tredegar

Sadler, C. W., Peterborough  
Sargent, Marion J., Manchester  
Schnell, J. F. P., King's Williamstown  
Sewell, W. M., Goole  
Sharp, Albert, Namerch  
Smith, J. R., Burton-on-Trent  
Smith, Raymond, Sheffield  
Taylor, T. A., Dulwich  
Thatcher, R., Anstey  
Thomas, D. G., Aberdovey  
Thomas, E. O., Bangor  
Thompson, C. R., Gorton  
Tilbury, H. B., Hove  
Tonkin, Leslie, Penzance  
Turtun, N. C., Ashton-in-Makerfield  
Umney, A. C., Sydenham  
Vincent, E. H., Chatham  
Wade, H. L., Harrogate  
Webster, E. B., Walsall  
White, P. A., Windle  
Whitehead, H., Burnley  
Whiteoak, C. K., Hebden Bridge  
Whyte, W. H. A. C., Colchester  
Williams, J. H., Liverpool  
Woolfson, J., Moxborough  
Wright, Chrissie McL., Saltash

#### PRELIMINARY SCIENTIFIC EXAMINATION AND CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following, having satisfied the examiners in the above examinations, have been registered as chemists and druggists:—

Bowen, E. M., Cardigan  
Bowley, A. E., Brighton  
Dumbleton, E. B., Bristol  
Hackney, R. A., Stoke-on-Trent

Marshall, Eunice, Johannesburg  
Thompson, R. P., Hove

#### Branch Meetings

**Sunderland.**—On January 6 a party of members of the Sunderland Branch visited the freezing works of the Franco-Belge Company, Newwinning, Seaham Harbour. The party was escorted by Monsieur Heward, who began the tour by giving a short lecture on the theory of freezing and the methods of overcoming various technical difficulties. After the explanation of the process the party was shown round the works. A vote of thanks was afterwards proposed by Mr. Forster, President of the branch.

**C. & D. POISONS CARD No. 2.**—This card is among the "best sellers" in the C. & D. Publications Department. The reprint of January 1 is nearly sold out, but we have made arrangements to ensure that all orders for this and other C. & D. Poisons Cards will be filled promptly.

**MINIATURE RETAIL PRICE LIST.**—We have sent out a large number of the Miniature Edition of the C. & D. Retail and Dispensing Price List, which we prepared as an advertisement. We have a supply left, and will gladly post free of charge copies to any chemist who sends us a postcard request.

**A NARROWING TENDENCY.**—Lecturing to school teachers recently, Mr. George Morris remarked that increasing trade had narrowed down to a great extent the life of the trader and shopkeeper. To-day the chemist did not manufacture his pills. He bought all his goods from the factory, and the chemist's assistant became to a great extent a distributor of goods across the counter. Environment, to most sections of the community, had become narrower, until in some cases one lived as it were in a cell, having no touch, or very little touch, with reality.

## Labelling Proprietary Preparations

IN continuation of the series of articles dealing with the declaration of scheduled poisons in proprietary preparations the following additional information has come to hand:—

DIGITALINE NATIVELLE, from Laboratory Nativelle, Ltd., 15 Great St. Andrew Street, London, W.C.2, is labelled with the proportion of digitalin in each granule.

KREOZONE is now labelled: "Contains 8 per cent. creasotum B.P."

DR. ROOKE'S GOLDEN OINTMENT is now labelled: "Contains 2.7 per cent. hyd. ox. rub. B.P."

### Not Affected by the Labelling Order

Clarke's Blood Mixture.

Crosby's Balsamie Cough Elixir.

Farmer's Baited Phosphor Paste.

Farmer's Ratmousine.

Lysol tablets.

"Napoleon" Cough Cure Powders.

"Napoleon" Gout and Rheumatism Powders.

Perry's Powders.

Dr. Rooke's Solar Elixir.

Dr. Rooke's Oriental Pills.

Dr. Rooke's Rheumatic Lixile.

Veet Cream.

## Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1926, p. 309.

(From "The Trade-marks Journal," January 6, 1926.)

"KHAIRO"; for hair dyeing and tinting preparations (48). By Laboratoire Quero, 32 Ship Street, Brighton. 463,904.

"ODANILINE"; for perfumery, etc. (48). By Odanil Société Anonyme, 17 Place de la Madeleine, Paris. 464,172. (Associated.)

"KREBOVO HAIR RESTORING POMADE" with devic; for pomade (48). By H. Thomas & Co., Morawel, Pwll, Llanelly. 464,237.

(From "The Trade-marks Journal," January 13, 1926.)

"WOODFORTIS"; for chemicals (1). By The Harvie Corporation, Ltd., Broadway Buildings, Westminster, London, S.W.1. 464,554. (Associated.)

"ZOVALENE"; for medicinal chemicals (3). By E. W. Baker, 36 North Road, Holloway, London, N.7. 463,597.

"MOSKETIS"; for medicinal preparations for insect bites (3). By Associated Products, Ltd., Kemdent Works, Denmark Road, West Ealing, W.13. B460,394.

"TWOITX"; for internal medicinal powders (3). By W. Dickson, 78 Cadzow Street, Hamilton, Lanarkshire. 463,683.

"ANTIGERMIS"; for an external medicated preparation (3). By Antigerm, Ltd., 12 Broadway Chambers, Hammer-smith, London, W.6. 464,527.

Fish device with name, "SALMON ODY, LTD."; for surgical appliances (11). By Salmon Ody, Ltd., 7 New Oxford Street, London, W.C.1. 463,599. (Associated.)

"STAR LADY"; for perfumery, etc. (48). By L. Lechner, 31 Schützenstrasse, Berlin, S.W.68. 464,852.

"OKOLO" with Egyptian device of two figures in boat; "OKOLO" on circular device of stars forming cross; for perfumery, etc. (48). By Laboratoire Scientifique, 81 Lichfield Grove, Finchley, London, N.3. 462,591/592. (Associated.)

"RONMO"; for toilet articles (48). By J. Barnett, 26 Baker Street, Portman Square, London, W.1. 464,483.

"WILGUR"; for razor stroops and paste (50). By W. G. Ruff, 36 Penton Street, London, N.1. 451,693.

BANKRUPTCIES IN 1925.—Bankruptcies last year, states "The London Gazette," numbered 4,750, compared with 4,869 for 1924 and 5,099 for 1923.

INDIAN BISMUTH.—Bismuth ore, weighing 0.71 cwt., and valued at Rs. 240 (£17), was produced in the Tavoy district during 1924, presumably as a by-product in the extraction of wolfram.

## Personalities

SIR RICHARD WINFREY, Ph.C., has sailed for the United States for the purpose of addressing conferences under the auspices of the Methodist Episcopal Church.

MR. CHARLES E. GARDNER, chairman of William Gardner & Sons (Gloucester), Ltd., manufacturers of chemical and other machinery, has been elected an alderman of the city of Gloucester.

A PORTRAIT of Dr. Mary Jack, medical adviser to the National Milk Publicity Council, and daughter of Mr. James Jack, Ph.C., Arbroath, appeared in several London newspapers on January 7 and 8.

DR. G. CLARIDGE DRUCE, M.A., Oxford, has just delivered his twenty-fourth Christmas lecture at the University Museum, the subject chosen on this occasion being "Jerusalem and Damascus."

ON the occasion of the ninetieth anniversary of the Société de Pharmacie d'Anvers, Mr. G. P. Forrester, F.C.S., of THE CHEMIST AND DRUGGIST, was made a corresponding member of this, the oldest pharmaceutical society in Belgium.

ALDERMAN WILLIAM BRIGGS, retired chemist and druggist, who was Mayor of Lancaster for six years, has presented the borough with a gift of £500 in war stock as a fund for the purchase of art treasures and other things of interest for the museum.

DR. ANGEL MORALES DE LAS POZAS, who will be remembered as the Spanish delegate to the meeting of the International Pharmaceutical Federation held in London in 1923, has been elected second Vice-President of the Royal College of Pharmacists of Madrid.

LIEUTENANT-COLONEL G. R. CROSFIELD, D.S.O., has been presented by over 2,000 employees of Joseph Crosfield & Sons, Ltd., Warrington, with a bronze statuette, representing a North Country worker rolling up his sleeves, an act symbolising a "spirit of determination and pride of achievement."

AN unusual New Year's greeting has reached us in the shape of a wall calendar and a series of picture postcards from Mr. F. H. Slark, Government Street, Victoria, B.C. Mr. Slark was one of 150 dispensers specially enlisted in August 1914, and at the close of the European war he went to Canada. The photograph taken by him for the calendar shows a brown bear and two cubs climbing a tree in the Rocky Mountains, and his postcards present other views in this picturesque region.

SIR MAX MUSPRATT, Bt., chairman of the United Alkali Co., Ltd., Liverpool and London, has been nominated as President of the Federation of British Industries for the ensuing year. Sir Max Muspratt was born in Liverpool in 1872. He was educated at Clifton College and at Zurich, entering in 1895 the works of the company of which he is now chairman. In 1901 he became a director on the technical side of the business, and succeeded his father in the chairmanship in 1914. He is the first Englishman to hold the diploma in industrial chemistry awarded by the Swiss Government. In addition to the chairmanship of his own business, he is the Vice-President of the Association of British Chemical Manufacturers, deputy-chairman of the Sulphuric Acid Association, chairman of the recently appointed Lord Mayor of Liverpool's Committee on Trade and Industry of the Port of Liverpool, and chairman of the Liverpool Economic League. In 1917 he was Lord Mayor of Liverpool.

MR. JAMES WYLDE, retired chemist, 45 Woodstock Road, Oxford, who died on November 4, left property in Great Britain of the gross value of £15,518 6s. 2d., with net personalty £15,463 14s. 5d.

MR. FRED VENABLES, chemist and druggist, King Street, Hammersmith, London, W.6, is distributing a third edition (53,000 copies) of "Venables' Medical Hints," a book of 116 pages, including a calendar, a price list, competitions, and advertisements.



## Marriages

**FORSHAW—ALLEN.**—At St. George's Church, Hanover Square, London, W.1, on December 26, 1925, James Forshaw, chemist and druggist, Addlestone, to Alice Mary, daughter of Mr. H. Allen.

**KEYS—CAMPBELL.**—At Cricmaa, Castle Park, Belfast, on December 22, 1925, by the Rev. John Pollock, William Mitchell Keys, M.B., Ph.C., Clonelly, co. Fermanagh, to Wilhelmina, daughter of Mr. William Campbell.

**LOVERING—WILLIAMS.**—At the Parish Church, Abercynon, on January 7, Cyril John Lovering, B.Sc., M.R.C.S., L.R.C.P., to Constance Violet, younger daughter of Mr. W. G. Williams, Ph.C., The Pharmacy, Abercynon.

## Deaths

**ALDRIDGE.**—On January 10, suddenly, Mr. G. H. Aldridge, a partner in the Natural and Synthetic Perfumery Essence Co., 12 Railway Approach, London Bridge, London, S.E.1.

**BARR.**—At 5 Woodhey Road, Rock Ferry, on January 8, suddenly, Mr. Alexander Steen Barr, chemist and druggist. Mr. Barr, who qualified in 1893, was in business for a good many years in Berry Street, Liverpool. He was at one time associated with Mr. W. H. Clubb, Ph.C. During that period he took an active interest in the affairs of the Liverpool Chemists' Association, being on the Council, and also acting as one of its joint secretaries. He leaves a widow.

**BROWN.**—At Willow Brae House, Edinburgh, on January 3, Catherine Pringle, widow of the late Mr. David Brown, senior partner of J. F. Macfarlan & Co., manufacturing chemists, Edinburgh and London.

**CARR.**—At Western Bank, Sheffield, on January 12, Mr. George Carr, chemist and druggist, aged seventy-seven. Mr. Carr carried on a retail business for many years in Division Street, afterwards devoting himself to dentistry. In 1871 he founded the business afterwards known as George Carr & Co., Ltd., manufacturing chemists, in Wilkinson Lane, and took an active part in the management until recently. Mr. Carr is survived by four sons and a daughter.

**CRESSWELL.**—On January 8, Mr. Frederick Cresswell, chemist and druggist (Cresswell & Laing, chemists, 133 Burnt Ash Road, Lee, London, S.E.12), aged eighty-two. Mr. Cresswell passed the Modified examination in 1871.

**JACKSON.**—At Leigh-on-Sea, on January 10, suddenly, Mr. Thomas Jackson, retired chemist and druggist, aged sixty-six. Mr. Jackson, who had been ailing for some time past, died suddenly while at church. Nearly forty years ago he opened a pharmacy at 272 Stamford Hill, London, N.16; he retired last March, and sold the business to Mr. J. Berlin, chemist and druggist. Mr. Jackson is survived by a widow.

**KIRKUP.**—At Newcastle-upon-Tyne, on January 9, suddenly, Mr. George John Kirkup, senior director of G. J. Kirkup, Ltd., chemists, 111 Westmorland Road, aged sixty. Mr. Kirkup was the youngest son of the late Mr. P. Kirkup, whom he succeeded in business. He underwent a serious operation last July, and was ill for some months afterwards. On an inquest being held, it was found that death was due to natural causes. Mr. Kirkup is survived by a widow, a son, and a daughter.

**MORRIS.**—At Lee, London, S.E., on December 31, 1925, Mr. Edward Stow Morris, chemist and druggist, aged sixty-four.

**OSBORNE.**—At Ashbourne, Derbyshire, on January 11, Mr. James Osborne, J.P., chemist and druggist, aged seventy-seven. Mr. Osborne carried on a pharmacy at Ashbourne for a long period, and was identified with public affairs in various ways, being a member of the old Local Board and chairman of the Urban Council. In 1919 his business was acquired by Osborne's (Chemists), Limited.

**PARKER.**—At Morecambe, recently, Mr. Thomas William Parker, son of Mr. Samuel Parker, chemist and druggist, and brother of Mr. G. B. Parker, chemist and druggist, Bradford. Mr. Parker, who was associated with his brother in business, leaves a widow and one child.

**PARKS.**—At Longton, Staffordshire, on December 30, 1925, Mr. Henry Parks, chemist and druggist, aged sixty-nine.

**PEAKE.**—At 96 Albany Street, London, N.W.1, on December 26, 1925, Mr. William Alexander Peake, chemist and druggist, aged seventy-five. Mr. Peake carried on a pharmacy at 48 Fore Street, Hertford, for a considerable period. In 1914 he disposed of the business to George Durrant & Son, who removed it to their own premises in the town.

**PRIESTLEY.**—At Newark, on December 13, suddenly, of heart failure, Alderman Lawrence Priestley, J.P., Ph.C., Mayor of the borough Alderman Priestley, who was a native of Nottingham, passed the Minor examination in 1889, and took the higher diploma in the following year. Commencing business on his own account in Newark shortly afterwards, he was elected a member of the Town Council in 1899. For six years he was chairman of the education committee, and he also served on the board of management of the School of Science and Art. Alderman Priestley's public services were recognised by his election as Mayor in 1911 (at which time the photograph reproduced here was taken), and again last year. In 1923 he unsuccessfully contested the Newark division of the county of Nottingham in the general election.



MR. L. PRIESTLEY, J.P., Ph.C.

**STEAD.**—At West Bridgford, recently, Mr. Thomas Albert Stead, retired chemist and druggist, aged seventy-seven. Mr. Stead carried on business at St. Anne's-on-the-Sea for twenty years, retiring in 1911. He is survived by a son and two daughters.

## Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

**Fat-Splitting Agents.**—A fat-splitting agent consisting of organic sulpho-compounds mixed with porous materials. (J. D. Riedel A.G. 227,089.)

**Tooth-brush Steriliser.**—A steriliser for tooth-brushes, etc., consisting of an outer vessel, containing a sterilising liquid, in the mouth of which a percolator provided with perforations and a valve is mounted in such a manner that on inverting the apparatus the liquid from the outer vessel percolates into the inner vessel, and vice versa. (Dorothy Knott. 244,287.)

**Organic Arsenical Compounds.**—A process for the preparation of derivatives of aromatic aldehydo-arsinic acids or mixed aliphatic-aromatic keto-arsinic acids, e.g., the semicarbazone of benzaldehyde-arsinic acid, and the hydrazone of acetophenone-arsinic acid, based on the interaction of *p*-benzaldehyde-arsinic acid and acetone semicarbazone, or of acetone-hydrazone and *p*-acetophenone-arsinic acid. (Deutsche Gold- und Silber-Scheideanstalt, vormals Roessler. 235,864.)

The tender of Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, for a supply of quinine tablets to Palestine, has been accepted by the Crown Agents for the Colonies.



## Trade Notes

**IODISED THROAT LOZENGES.**—Thomas Kerfoot & Co., Ltd., Bardsley, have added iodised throat lozenges to their "Ivory tin" series of medicated lozenges.

**DICK, COATES & Co.**, 41 Great Tower Street, London, E.C., have been appointed agents for the Temmlerwerke, Vereinigte Chemische Fabriken, Berlin-Johannisthal.

**JOHNSTON & ADAMS**, wholesale druggists, Dundee, have appointed Robert W. Phillips, Ltd., Craven House, Kingsway, London, W.C.2, as their agents for London and the Southern Counties of England.

**PHILIP WHIPMAN**, drug merchant, St. Dunstan's House, 3 Cross Lane, London, E.1, announces that his telephone numbers have been changed to Royal 6166 and 6167; the warehouse number remains the same—Clerkenwell 6623.

**CHARMIAN TOILET PREPARATIONS.**—Burgoyne, Burbidges & Co., Ltd., East Ham, London, have introduced a new line of toilet preparations under the brand name Charmian. Particulars are given in the company's advertisement in this number.

**G.O. SEIDLITZ POWDERS.**—Milner's Manufacturing Chemists, 11 John Penn Street, London, S.E.13, offer a double bonus on the G.O. Seidlitz Powders during January and February. The trade terms are given in an advertisement in this issue.

**ANÆSTHESIN AND ORTHOCAINE** are not poisonous alkaloids within the definition of the Poisons Schedule. Mr. A. C. Henry, 19 St. Dunstan's Hill, London, E.C.3, has submitted evidence as to the dose for internal use of these two articles, which shows that, even if held to be alkaloids, they are not poisonous alkaloids.

**FLETCHER, SQUIRES & Co.**, 70 Goldhawk Road, Shepherd's Bush, London, W.12, whose advertisement appears on p. 75 of the *C. & D. Diary*, 1926, should have been classified in the Buyers' Guide under the following headings: Puffs, Fursac Puffs, Puffs for Compact Powders, Handle Puffs, Handkerchief Puffs and Fur Puffs.

**"SUPASTONE" ILLUMINATING GLASS.**—The Wholesale Fittings Co., Ltd., 23, 25, 27 and 37 Commercial Street, London, E.1, issue a catalogue and supplement of the various electric lamp shades made of Supastone three-ply glass. The styles include the most recent patterns suitable for shops and public buildings, some of the shades being hand-painted in colours. Particulars will be sent on application.

**BRITISH JOURNAL PHOTOGRAPHIC ALMANAC.**—This well-known annual has reached its diamond jubilee in the issue for 1926, and the volume seems to us simultaneously to have reached the high-water mark. There is striking evidence of its virility in the number of advertisements and the variety of the literary contents. Amateur cinematography is the main treatise in the work, and as this subject is much to the fore many chemists will welcome the full information given as to methods and apparatus. The Epitome of Progress and the section devoted to formulas will attract the attention of photographic chemists; both sections contain much of practical importance. There are many excellent reproductions of photographs. The almanac is published at 2s. (3s. cloth) by Henry Greenwood & Co., Ltd., 24 Wellington Street, London, W.C.2.

**"CALCARDS."**—The arrangement of dietaries for patients, especially diabetic patients, presents many difficulties. Body weight and urine analysis are very definite indications, but finding the equivalent of, say, 60 grams of carbohydrate, 90 grams of protein, and 170 grams of fat, in ordinary foodstuffs is not an easy matter. The published analyses of most foods supply little guidance. The Calcard system has been devised as a practical solution of the problem. This consists of a series of 150 cards (with key), selling at 2s. 9d.; each card represents a convenient quantity of one of the ordinary foods as prepared for table, showing the exact amount of protein, fat and carbohydrate contained, and also the calories supplied. The quantities of the various food elements in grams, and the number of calories, may thus be determined quickly by simple addition. The agents are David Challen, Ltd., 10 City Road, London, E.C.1.

**LABORATORY NATIVELLE, LTD.**, 15 Great St. Andrew Street, London, W.C.2, have an announcement regarding the labelling of Digitaline Nativelle. A warning is also given against purchasing packages that have been opened or otherwise tampered with. The article packed especially for the English market is guaranteed by the makers.

## Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Tuesday, January 19

**Eating Pharmacists' Association**, Eden's Restaurant, High Street, at 8.30 p.m. Mr. H. F. Hutchison on "Architecture: Good, Bad and Indifferent."  
**North London Pharmaceutical Association**, North Library, Manor Gardens, N.7, at 8.30 p.m. Mr. F. A. Lawman on "Method in Selling Goods."

### Wednesday, January 20

**League of Ex-Service Pharmacists (Merseyside Branch)**, Bear's Paw Restaurant, Lord Street, Liverpool, at 8 p.m. Hotpot supper and social evening. Tickets (3s. 6d. each) from Mr. W. J. Tristram.

**London (South-West) Chemists' Association**, Clapham Reform Club, St. Luke's Road, Clapham. Smoking concert. Programmes (1s. each) from the secretaries. Ladies invited.

**London (Western) Pharmacists' Association and Branch of the Retail Pharmacists' Union**, Slater's Restaurant, 192 Oxford Street, W., at 8.30 p.m. Mr. G. A. Mallinson on "The Keeping, Selling, Dispensing and Labelling of Poisons." Managers and assistants especially invited.

**Pharmaceutical Society of Great Britain (Chesterfield Branch)**, Blackshaw's Café, at 3.30 p.m. Mr. H. Autcliffe on "The Labelling of Poisons Order."

**Pharmaceutical Society of Great Britain (Manchester and Salford Branch)**, The University. Lecture by Mr. G. D. Eldon, B.Sc., F.I.C. Joint meeting with the University Students' Association.

**Pharmaceutical Society of Great Britain (Portsmouth Branch)**, Southsea Club, at 3 p.m. "The Story of Bacteria," by Mr. W. J. Melhuish. At 8.45 p.m. a whist drive and dance at the Goodies Café, Elm Grove, Southsea. Tickets (including refreshments), 3s. each, from Mr. W. H. Bown, 50 Victoria Road North, Southsea.

### Thursday, January 21

**Chemical Society**, Burlington House, London, W.1, at 8 p.m. Four papers will be read, including "A Revision of the Structural Formula of Glucose." By W. Charlton, W. N. Haworth, and S. Peat.

**Guild of Public Pharmacists**, 17 Bloomsbury Square, London, W.C., at 8 p.m. Sir Almoth Wright, F.R.S., on "Chemotherapy."

**Pharmaceutical Society of Great Britain (Bath Branch)**, Old Red House, New Bond Street, Bath. Annual whist drive and social evening. Tickets (3s. 6d. each) from the secretaries.

**Pharmaceutical Society of Great Britain (Cambridge Branch)**, Victoria Assembly Rooms, Market Hill, at 5 p.m. Meeting. "Present-day Pharmaceutical Problems." By Mr. John Keall (member of the Council).

**Pharmaceutical Society of Great Britain (South-East Metropolitan Branch)**, Town Hall, Woolwich, at 6.30 p.m. Social and dance (tickets 2s. 6d. each).

### Friday, January 22

**Pharmaceutical Society of Great Britain**, 36 York Place, Edinburgh, at 8 p.m. Evening meeting. "Arsenic: With Special Reference to its Use in Horticulture and Agriculture," by Mr. Alex. McCutcheon, M.P.S. A discussion on a point raised by the revised Poison Schedule, opened by a communication on "What is an Alkaloid?" by Mr. E. J. Schorn, Ph.C., A.I.C.

**Royal Institution of Great Britain**, 21 Albemarle Street, W.1, at 9 p.m. "The Work of the Davy Faraday Research Laboratory," by Sir William Bragg.

## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

B/131. "Bow Bells" wct white	P/61. Galiooben (a straw-coloured aromatic liquid)
S/111. Bromelikon (or Iodeikon)	G/51. Iodine Petrox
F/51. "Camp" abdominal belt	L/91. S.P. Herbal Embrocation
M/131. Cardiazol	S/121. Treyser's Rheumatic Pills



## Observations and Reflections

By Xrayser III

### Scant Sympathy

with the views of Scottish pharmacists appears to have been manifested when their resolutions and expressions of protest against the Labelling of Poisons Order were formally received by the Pharmaceutical Society's Council (*C. & D.*, January 9, p. 42). Much may, of course, have been said on the subject in secret session, and it is hardly to be supposed that the Scottish representatives present would have nothing to advance in explanation or support of the protests arriving from their native country. It is noteworthy, however, that the published reports of the proceedings do not record a single comment by any member of the Council, and the coldly deliberate instructions to the secretary how to reply to the various letters received could hardly be excelled for their unsympathetic tone by the Privy Council, the Home Office, or any other Government department. Possibly our Scottish brethren may be able to elicit some interesting information on the position from their resident representatives, but it looks very much as if the Council now feels helpless in the matter and can only say "Ditto" to the Government functionaries concerned.

### As Regards Labelling

of poisons, it would be hard to better Mr. Rutherford Hill's indictment (*C. & D.*, January 2, p. 24) of the seemingly inextricable tangle in which we are involved by logical interpretation of Section 17 of the Pharmacy Act, 1868, as modified by subsequent legislation. In spite of definite assertions to the contrary by Sir William Glyn-Jones and other official apologists, it would appear beyond question that articles which it has not hitherto been customary to label "poison" must now be so labelled if we are to comply with the strict letter of the law, and there should be no two opinions about the urgency of revision and simplification of the Poisons Schedule, such as Mr. Hill suggests. Generalisations to which he takes exception seem originally to have been introduced into the Schedule as a means of sweeping many unnamed substances into the pharmaceutical net, but their inclusion conflicted with the principles on which poisons should be scheduled, and we now have to pay the penalty attending the use of statements which are not free from ambiguity. For the moment we must apparently decide whether to continue to exercise our discretion in many doubtful instances, or proceed to use the word "poison" as indiscriminately as many unwise persons would have us do, and so upset many of our customers. The *C. & D.* series of Poisons Cards will probably be found our safest guide for the time being, but I trust something will come of Mr. Rutherford Hill's emphatic protest against prevailing absurdities.

### Credit Attaches

to the British delegates to the Brussels International Conference for making such important reservations on points of detail in connection with the recommendations put forward at the Conference. We should all be in accord with, and approve the practical nature of, the reservations, as reported in your issue of January 9 (p. 41). Let us hope that the Science Committee of the Pharmaceutical Society, to which the matter was referred, will confirm what the delegates have done, and so emphasise the undesirability of endeavouring to make British practice conform to foreign methods, which have nothing to recommend them apart from the desire to establish international standards.

### Is a Loss

actually revealed by the figures submitted by "Pernplexed" (*C. & D.*, January 9, p. 66)? While making no assertion to the contrary, I am wondering if your correspondent is justified in charging the entire cost of dispenser against Insurance work. An average of about thirty prescriptions dispensed daily is not sufficient to account for the whole of the dispenser's time. Has allowance been made for this, is the dispenser a legally qualified person, and has he or she been specially engaged for

this work and no other? Further information on these points will help to make discussion of the subject more fruitful. Incidentally, it would be well when writing about remuneration for Insurance work to avoid reflection on the nature of the medical service rendered. In my experience, this is frequently quite as good as that rendered to private patients.

### Professor George Henslow.

to one of whose books I referred in my observations on buckthorn in your issue of January 9, has, I see from your obituary column, passed away at the advanced age of ninety. As you point out, he was the author of several botanical works, but the one of most interest to pharmacists is his "Medical Werkes of the Fourteenth Century." It was published in 1899. Professor Henslow came into the possession of a M.E. manuscript, which Professor Skeat, in his introduction to the book, states was written about 1400. Much of this MS. was given up to recipes written in M.E. They are of value for the philologist, the botanist, and the student of the history of medicine. These recipes constitute the first portion of the book, and others from several other MSS. of the same period have been added. The latter half of the volume contains a list of "plants recorded in the fourteenth century" which were used as drugs. A great amount of devotion and research must have been expended upon the valuable notes with which Professor Henslow furnished it. He took the greatest pains to identify the plants and to work out their synonymy, and not only compared the several fourteenth-century MSS., but also consulted the vocabularies which were available. This is not the place to enlarge further upon its contents, but the occasion gives me an opportunity of calling the attention of many of your readers who are interested in this branch of study to a volume which some of them hitherto may have overlooked.

### Poison

is a word which is to become increasingly familiar to the public. Originally it was as innocent in meaning as to-day it is sinister. Derived as it was from the Latin "potio," a drink, a draught, it appeared in Middle English as "pouison," "poison," and in old French as "poison." In this sense it was used by William Langland in his "Piers the Plowman" in the fourteenth century; but later in the same century it appeared in Bartholomæus Anglicus's "De Proprietatibus Rerum," in a phrase, which is now a proverb, where it bears a meaning almost as evil as that it now possesses: "Ofte thinge that is holseme and goode to men is poyson to other bestes." The Oxford English Dictionary has a reference to the "Catholicon Anglicum" (1483), where a "puson" is associated with aconitum, toxicum and venenum. It may be inferred, therefore, that its modern meaning was acquired in the fourteenth century. Several of the old writers on medicines give lists, of greater or less extent, of the "deleterious substances" of their times. Without comment I will repeat the list given by Paulus Aegineta, who probably lived in the seventh century. A comparison with the Poisons Schedule will be interesting. Dr. F. Adams's translation reads thus: "Of deleterious substances, the following animals are destructive: cantharis, buprestis, salamander, pine-caterpillar, the sea-hare, the toad, the mite marsh frog, and leeches when swallowed; and of seeds, henbane, coriander, fleawort, hemlock and gith; and of juices, meconium, opocarpasum, thapsia, elaterium, ixia, hellebore, black agaric, cphemerou (which some call colchicum because it grows in Colchis); of trees and pot-herbs, smilax (which some call thymium, but the Romans called taxus), the strychnos furiosa (which is called dorycnium), the Sardoan herb (which is a species of ranunculus), horned poppy, pharicum, toxicum, wild rue and mushrooms; of animal productions, fresh bull's blood, coagulated milk, Heraclæan honey; of metals, gypsum, ceruse, lime, arsenic, sandarach, litharge, adarce, lead and that which is called mercury; and of domestic articles, much wine taken at a draught after the bath, or must, or cold water in like manner."



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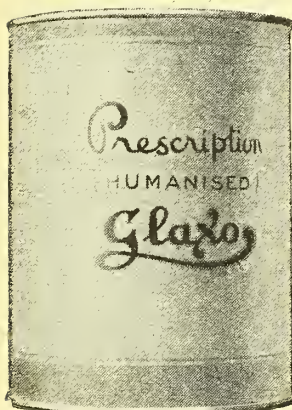
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## Editorial Articles

### The New Methylated Spirits Order

IN last week's *C. & D.* (p. 49) we printed the more important of the new methylated spirit Regulations which are to come into force on February 1. The whole subject of methylated spirits is one which interests so closely that large body of chemists and druggists who are methylated spirit retailers or users that the changes introduced by the Order deserve some detailed notice. It may be said that the new Regulations, though made by the Commissioners of Customs and Excise under the general powers which they possess under the Spirits Act, 1880, as supplemented by the Revenue Act, 1906, were made possible only by some provisions of the Finance Act, 1924. They represent an official attempt to satisfy without fresh substantive legislation the recent public agitation on the subject, due to Press denunciation of methylated spirit drinking. Prior to the Order there were, in addition to power methylated spirits, which are not affected by it, two kinds of methylated spirits, namely (a) industrial methylated spirits, in which the proportion of wood naphtha or other approved substance or combination of substances was not less than one-nineteenth of the bulk of the spirits methylated; and (b) mineralised methylated spirits, in which the proportion of wood naphtha or other approved substance or combination of substances was not less than one-ninth of the spirits methylated, and which had dissolved with them, in addition not less than three-eighths of 1 per cent. of mineral naphtha or petroleum oil. They were also required to contain not less than one-fortieth of an ounce of aniline dye (methyl violet) for each 100



gallons of the spirits as mixed. Under the new Order three kinds of methylated spirits take the place of these two: (1) Industrial methylated spirits, to which it is required that five parts by volume of wood naphtha shall be added for every ninety-five parts by volume of the spirits; (2) industrial methylated spirits (pyridinised), which must have to every ninety-five parts by volume of spirits five parts by volume of wood naphtha, and also one-half of one part of crude pyridine to every one hundred parts by volume of the mixture; and (3) mineralised methylated spirits to which there is required to be added for every ninety parts by volume of spirits nine and a-half parts by volume of wood naphtha and one-half of one part of crude pyridine, and to every 100 gallons of the mixture three-eighths of one gallon of mineral naphtha or petroleum oil and not less than one-fortieth of an ounce by weight of powdered aniline dye (methyl violet). Incidentally, also, the new Regulations give an exact definition of finish which is to be regarded in future as any mixture of methylated spirits and gum resin in which the proportion of gum resin in actual solution is not less than three ounces and not more than sixteen ounces in each gallon of the mixture. It is no doubt expected that the addition of the crude pyridine to the more readily accessible varieties of the spirits will make them too nauseous for the palates of drinkers of even the most depraved tastes. However this may be, the innovation has led in turn to relaxations in another direction. Under the law prior to the Order a retailer of methylated spirits could not sell or have in his possession for sale any methylated spirits other than mineralised methylated spirits, although he might, if duly authorised by the Commissioners, receive and use industrial methylated spirits in an art or manufacture carried on by him. The new Regulations, recognising the unsuitability of pyridinised spirits in their entire condition for many purposes connected with the science of the medical practitioner, veterinary surgeon, and dentist, make provision for the supply to members of these professions of the industrial variety of the spirits, subject to certain prescribed conditions. Permission to supply in this way may be granted by the Commissioners to a duly registered pharmaceutical chemist or chemist and druggist, or to any person who lawfully keeps open shop for the retailing of poisons in accordance with the Poisons and Pharmacy Acts. When granted, it authorises the sale of industrial methylated spirits in quantities not exceeding one imperial pint at any one time, either alone or as an ingredient of some preparation prescribed for external use. The supply is to take place only on the written order or prescription of a duly qualified medical practitioner, dentist, or veterinary surgeon, and an account has to be kept in a prescribed form of all receipts and sales of the spirits. As this account is in a convenient form for the keeping of stock, this requirement cannot be looked upon as a serious drawback, and the concession is one likely to be appreciated by those for whose benefit it is intended. At the same time there is no withdrawal of the old Regulation under which a retailer of methylated spirits may be authorised by the Commissioners to receive and have in his possession industrial methylated spirits, whether pyridinised or not, for use in an art or manufacture carried on by him. And, on the whole, while we do not look for a completely satisfactory solution of the methylated spirit problem so long as the present high taxation of ordinary beverage spirits continues to place them beyond the reach of the poorer class of drinkers, we think the new Regulations are to be welcomed as an indication of the willingness of the authorities to meet the needs of retailers and users of methylated spirits to the extent allowed by the demands of revenue policy.

### The Turpentine Position

FLUCTUATIONS in the price of American turpentine oil in the past year, although rather sharp on certain occasions in the earlier part of the spring and in the latter part of the year, were by far not so extensive as in some previous years, when values moved well into three figures. The two extreme figures touched in 1925 were 61s. and 83s. per cwt., the lower record having been reached just at the opening of the year, and the highest figure in May, when the demand was considerable under the influence of the after-effect of the drought of the previous year in the producing districts. The filling of trade needs then, and the fact that the surplus stocks of old crop spirit in London were tightly held, obviously accelerated the rise, which, however, was not long sustained so close on the advent of the new crop movement. By mid-summer the market had already reacted to the extent of over 15s. per cwt. to 67s. 6d. During the greater part of the summer the market was colourless, but towards autumn new interest was stimulated by reports that the crop yield would be considerably affected by a protracted lack of rains in the south, which was eventually reflected in a notable shrinkage in the receipts. This resulted in the price being lifted again to 81s. for spot in September, when there was a premium of about 3s. 6d. paid on January-April contracts. This movement was certainly purely speculative, and renewed reactionary conditions were not long in asserting themselves, in spite of bullish American forecasts as to market possibilities. The latter fact at the same time, however, was fully outweighed by the continuous free export movement of supplies to this side and the consequent steady accumulation of the London visible supply to well over 60,000 barrels, or to a point indicating quite a substantial excess compared with several years previous. The market held fairly well over a certain period at around 77s., until towards mid-November, but confidence became impaired by the falling-off in the home trade demand, as indicated by the poor deliveries over the remainder of the year. Commitments of importance had been built up covering the first four months of this year, the liquidation of which became the more irksome, due to the determined attempts which were made in America during December to get the price down. The Savannah quotation, which had reached about 110 cents in September, collapsed to about 97 cents, while "bear" manipulation there was assisted by the fact that unsold receipts accumulated from week to week. In the middle of December, in the virtual absence of support in this market, resales were occasionally effected privately at knock-out prices down to about 63s. for spot delivery, and a little more for January-April, but since the Christmas holidays manipulative tactics in the American markets were distinctly bullish, with the result that the Savannah quotation was raised considerably. London prices responded very reluctantly, however, and the year closed at about 68s., comparing with about 63s. a year previous. The total London deliveries for 1925 amounted to 88,568 barrels, or a decrease of 14,000 barrels and 5,000 barrels respectively, compared with the two previous years. The returns of deliveries for 1924 at 102,694 barrels, however, cannot be regarded as a fair comparison, because they included considerable quantities which were diverted to Continental ports, more especially Hamburg. Authoritative figures giving London deliveries and other returns for four years are as follows:—

(In barrels.)	1922.	1923.	1924.	1925.
London deliveries ...	84,936	93,751	102,694	88,568
London visible supply end of year ...	22,718	30,382	37,046	59,574
London spot closing price (per cwt.) ...	104s. 3d.	74s.	63s. 6d.	68s.



It will be seen, therefore, that there is a large excess of supplies held in London compared with previous years; on the other hand, precisely the reverse is the case across the Atlantic, where the stocks at the beginning of this year were estimated at roughly 20,000 barrels, or some 10,000 barrels less than at the same date last year. Therefore, it is perhaps as well not to attach undue importance to the very bearish views which have dominated the position at this end just lately, although there is every indication of ample supplies to meet trade needs over the remainder of this campaign. The position in France is considered very sound, surplus stocks there being very small, with no further offers made to this side at present. France has made heavy shipments in recent months to various Continental countries, while not a great deal of French spirit has come to this side in the past year, and the remnants should be easily disposed of to domestic users. The aspect of the market is now rather complex, while in the event of a renewed active demand in America, the present wide disparity in value between the American and London markets would probably continue. This disparity in favour of London buyers has been lately as much as 7s. per cwt., which is, of course, chiefly accounted for by the lack of confidence due to the heavy stocks nursed here. These, however, are said to be generally held in strong hands. The fact may be recalled that at one period in 1924, when London was at much below American parity, extra outside requirements were filled here on a considerable scale, and it thus remains to be seen whether history will repeat itself, unless there is an adjustment forthwith between the London and Savannah quotations. For the present our market is pursuing a course of its own under the large excess of supplies. Future developments are thus problematical, although there is little doubt that American manipulation may yet have some bearing on sentiment at this end in the event of a temporary shortage of supplies on the other side, prior to the new crop movement in the early spring.

### The Lemon "Squeeze"

DURING the past few months the price of lemon oil at the source has considerably advanced, and now the new crop for prompt shipment from Sicily has been quoted up to 7s. 5d. per lb. c.i.f. Hitherto it has usually been possible to buy much cheaper on the spot than for forward shipment, and buyers bought hand to mouth in preference to contracting forward at high prices. Conditions are now altered, and, as the result of depleted supplies, there is now not that unrestricted and almost ruinous competition on the spot among dealers, from whom many small consumers relied upon to obtain supplies. Few people had any faith in these rising prices in Sicily, and they deferred purchases in the hope of a reaction. These hopes have not been realised, and a general abstention of buying for forward shipment this season has had no effect whatever on the Sicilian market. It is unfortunate perhaps that many consumers should have missed their market, but at no period this season has there been a possibility of making favourable contracts. According to an official Italian report recently available, the 1925 lemon crop in Sicily yielded about 20 per cent. less than the average, and amounted to only 60 per cent. of the crop collected in 1924. Consequently, the production of lemon oil must also be below that of the preceding year. Carry-over stocks of lemon oil from 1924 amount to only 75,000 lb. Thus, after predicting higher prices for lemon oil for the past three or four seasons (which, as many buyers know to their cost, failed to materialise), the producer prophets have apparently been right on this occasion. It does not follow, however, that consumers and dealers on this side will be more ready to believe future reports in view of this season's accuracy.

### Adulterated Saffron

A report by Albert Noel (Assistant Trade Commissioner, Madrid) appeared recently in the American "Spice Mill" on adulterated saffron, the writer stating that adulterated saffron is sold as such and has its demand, owing to the higher price of the pure. There is a great demand for a very low grade of adulterated Spanish saffron in British India, to which country it is shipped in such an impure state that its price is only eighty pesetas the pound of 460 gm. Naturally, hundreds of ways have been resorted to in order to turn out imitation saffron. There are said to be in Spain at the present time between fifty and sixty concerns (mostly small) which produce imitation saffron. This may consist of stigmas, pistils, or even petals of harmless flowers other than saffron flowers (a certain thistle is said to answer the purpose very well), impregnated with a decoction of real saffron to give it taste and aroma, and coloured red with aniline or other dyes to perfect its resemblance to real saffron. The adulteration by means of mineral salts, which the writer states to be the most common method, is, according to Parry & Bird (*C. & D.*, September 26, p. 445) now seldom practised. They state that the usual method of adulteration to-day is by immersing the saffron in a saccharine solution of suitable strength and temperature and drying at air temperature.

### Spanish Control Laboratory

AN innovation of the greatest importance in the field of health legislation, fraught with far-reaching consequences, a measure destined to prove a benefit to the Spanish people, is the opinion expressed by Dr. F. Bustamante Romero, chief of the pharmaceutical department in the Directorate-General of Health, in a Madrid newspaper, in commenting on the decree recently signed by King Alfonso, providing for the creation of a laboratory for the control of medicinal and allied preparations. This Royal Decree of December 22, 1925, enacts that a technical control institute shall be created for the analysis, assay and examination of serums, vaccines, biological preparations, pharmaceutical specialities, proprietary disinfectants, and preparations used as substitutes for human milk. The institute is to consist of three sections: (1) Serology, devoted to the examination and assay of serums and vaccines; (2) Pharmacological Physiology, in which diagnostic reagents and those organotherapeutic products, the action of which can be determined by assay processes, are to be investigated, and (3) Chemical Analysis, to which is to be entrusted the task of investigating and testing pharmaceutical specialities and foods used in the place of human milk. The costs entailed in fitting up and organising the new institute are to be defrayed out of the funds derived from the fees charged for the registration of pharmaceutical specialities (*C. & D.*, I, 1924, p. 314). Article 4 of the Decree provides that the salaries paid to the personnel of the institute, and the cost of the materials required for the performance of its functions, are to be covered by the amounts exacted as fines from producers in cases of infringements and for making false declarations, as well as by the revenue to be derived from the sale of a distinctive device, to be affixed to every package of any of the products coming within the scope of this Decree. The charge for this device is based on the sale price to the public of the preparation, viz.:—Retail price 1 to 5 pesetas, charge 0.05; between 5 and 10 pesetas, 0.10; and where the sale price of the article exceeds 10 pesetas, the tax will amount to 0.15 peseta. In the case of products of foreign origin, the above charges will be doubled; for these the ground of the distinctive device will differ in colour, and also in serial numeration. The regulations giving effect to the provisions of this Decree are to be drafted by a commission consisting of the Director-General of Health, the dean of the Faculty of Pharmacy of Madrid, and the director of the laboratory of the province of Madrid.



## An Assistant's Ups and Downs

*Mr. R. Thomson, Elgin, sends us these reminiscences of the years 1869 to 1875, when he was an assistant.*

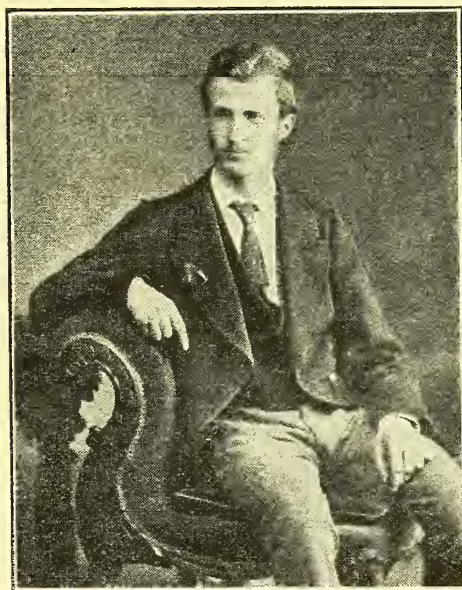
AFTER leaving Grattan's, of Belfast (see *C. & D.*, I, 1924, p. 869) in September 1869, I had a good holiday at home in the west of Fife, and then went up to London to look out for a situation. Arriving there by boat on a Saturday morning, I went into the city early on the following Monday to call at some of the wholesale houses, as I had been told that most of them kept a register of chemists requiring assistants. I had spoken to Mr. Charles Harvey, of Barron, Harvey & Co., when I saw him in Grattan's a few days before I left, and told him I was going to London. He advised me to call at their place in Giltspur Street, as he was sure they would do their best for me. He said that if I had any difficulty in finding the street I was to ask for Newgate Prison, where they hanged people, and would find it quite near there. So my first objective that morning was Newgate, and after having a good look at the exterior of the grim old prison—where so many distinguished rascals of the Dick Turpin type had paid the penalty for their sins, where also good old William Cobbett, whose English and French grammars I delighted to study, was imprisoned for two years, with a fine of a thousand pounds on his head, for having written too vigorously against the Government of his day—I soon found Giltspur Street; and in Barron, Harvey's office, after having told my quest, two elderly gentlemen stood and stared at me from the opposite side of the room, evidently in doubt about me. However, they gave me the benefit of the doubt, and handed me the address of Hooper & Co., Pall Mall. After calling on a few more wholesale houses and getting more addresses I went west.

### A LONDON ENGAGEMENT

I had no idea where Pall Mall East, South-west, was; it seemed to me a bit confusing. However, when I got to Charing Cross my brother, on his way into the city, noticed me on the top of a 'bus, and called me down to ask how I had got on. When I showed him my addresses, he said, "Here is a splendid place—Hooper's, of Pall Mall; if you can get in there you will be all right." So he took me through Trafalgar Square to the door. I went in, and saw Mr. Probyn, who was then manager of that well-known business; afterwards he became proprietor of it, a colonel in the London Volunteers, and a county councillor. He impressed me as being a very shrewd man; scanned me well, questioned me as to my experience, asked me to read several prescriptions, then told me to call the following day. Later in the same day some of my friends considered my position, and advised me to go to a doctor in Buckingham Palace Road, who wanted a dispenser. They thought that if I went there I might get time to study and in the course of a few years blossom forth as a doctor. But I had no ambition in that direction; I wished they had allowed me to choose for myself, as then I would have gone back to Hooper's next day, where I thought I had a fairly good chance of getting in. Strangely enough, my younger brother got there two years after that. However, out of regard for the advice of my friends, I went to that doctor, and was engaged at £35 a year (indoors). I felt very crestfallen when I found myself in his surgery, after having been in such a splendid house as Grattan's. My hours were from 9 a.m. till 9 p.m., without ever getting out during the day, and the only exercise I got had to be taken between 9 and 11 p.m., often by running a few times round Eaton Square, one of the largest squares in London. This was not good enough; however, I stood it for nine months and then gave it up. I would not have remained half that time had it not been that the doctor was a very clever and interesting man. While I was with him he was translating, in his leisure time, all Dante's works. It took him two and a half years to translate the "Paradiso," "Purgatorio," and "Inferno." Then he went into the city to arrange about the publishing of it, but was told that there was no demand for such a book, and was advised not to go to the expense of publishing it. He had made a mistake, and so had I, each in a different way. I remember a very successful architect once telling me that he never got on well in life till he had "made some big blunders and lost a few thousand pounds." That was particularly "grateful and comforting" to me.

### A SITUATION IN STIRLING

I left London in July 1870, shortly after the war broke out between France and Germany, and as I was very much reduced in health by my nine months' close confinement, which was little better than genteel imprisonment, I had a two months' holiday at home, roaming about the country and living on the plainest of fare, after which I was "as right as the mail" again. I next got a situation in Stirling with Mr. Moore, who was a smart business man, and had a good dispensing and general retail business. Before going to Stirling he had been six years in business for himself in Dunblane, where he had to do Sunday duty all the time, so he made it a condition that I should take Sunday duty during the whole of the time I was with him—two years—which I willingly agreed to do. Mr. Moore was a man who liked to do everything well. When he made tincture of opium, he sliced down the opium as finely as possible, put it in a pot with water and boiled it well on the fire to get all the strength out of



Mr. R. THOMSON AT THE AGE OF TWENTY-TWO.

it, allowed it to cool, then added the spirit, and filtered after a few days. I have known other chemists of the old school who made their tinct. opii in the same way, but I have no doubt that, before Mr. Moore was much older, he would be making that tincture in strict accordance with that wise book, the B.P., which, by the way, changes many of its methods nearly every time a new edition of it comes out, ever groping, no doubt, like the rest of us, to get at the best way of doing things.

Mr. Moore lived to the long age of ninety-two, and was able to be at business almost to the last month of his life. During that long time he passed through his hands many assistants, some of whom made good records in after-years. One of these was Mr. Robert Aitken, who was with him from 1868 to 1870, when I filled his place. He went to Mr. Baildon, Princes Street, Edinburgh, for two or three years, then to John Bell & Co., Oxford Street, London, W., and after being a considerable time there he went back to Edinburgh to manage the business for Mr. Baildon, who was by that time getting well advanced in years. His son, Mr. H. B. Baildon, was a literary man and poet of considerable merit, so he soared to greater heights than retail pharmacy, leaving Mr. Aitken to succeed to that old-established business soon after the death of old Mr. Baildon, and he has carried it on very successfully for nearly half a century. Mr. Aitken also established a branch at the west end of the city. He is still able to be at business part of each day and to enjoy an occasional round of golf. His son bids fair to carry on the two businesses as successfully as his father has done.



## A SUCCESSFUL PROPRIETARY

Another of Mr. Moore's assistants who made a very good record was Mr. Weddell, afterwards of the firm of Mawson, Swan & Weddell, Newcastle. In the course of a short lifetime he floated Cerebos salt, with a capital of £250,000. Knowing that I had been with Mr. Moore, he called on me when I was in Dublin Street, Edinburgh, and seeing on my counter a speciality which I was trying to introduce, he said, "You will never make anything of that; if you want to make money you must produce something that everybody wants"—and he did; but it does not fall to the lot of perhaps more than one man in a million to do what Mr. Weddell did.

Before Mr. Moore went to Dunblane he had been a few years an assistant with Mr. Farie, Bridge of Allan—about 1857 to 1860. Mr. Farie was a man of some note in his day, and Mr. Moore used to tell some interesting stories about him. One was that when he went up to pass his examination for the qualification of pharmaceutical chemist—the old diploma, prior to the present Minor and Major—he was only asked one question: "How's your father and mother?" He passed successfully, paid his ten-guinea fee, and got his certificate. There

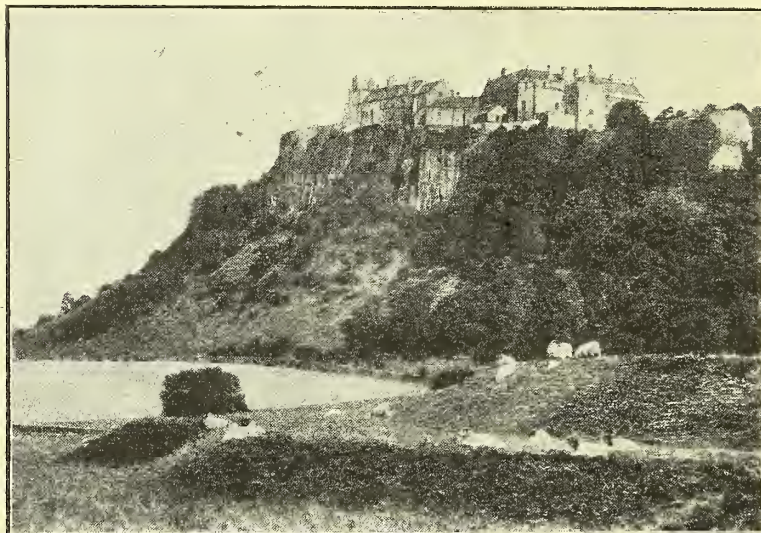
are many young chemists of the present day who, I am sure, would like very much if we could go back to these good old times, when examinations were so easy to pass; there would be fewer failures; less waste of good brain material, and the fee would be cheerfully paid. Old Mr. William Smith, of Elgin, a fine old chemist, but more of a farmer than a chemist, had a more difficult examination than that to pass for the same degree. I was invited to meet him

along with Provost Young, in old Mr. Robertson's back shop at Bridge of Allan, one evening more than thirty years ago, to talk over some matter of local interest to us, which was soon settled; then Mr. Robertson opened a bottle of good old port wine and treated us each to a generous glass. While we lingered over that these three old men, as fine old chemists as could have been found in any part of Scotland, and all very successful men, told some of their early experiences, which were very interesting. Mr. Smith told us that when he went up to Glasgow to pass his examination he was only asked three questions, and he learned two of them going up in the train; one was about sugar of lead. He passed, paid his fee, and rejoiced in the title of pharmaceutical chemist for the rest of his life. Mr. Robertson on that occasion expressed regret that we did not meet oftener to have a talk. I wish we had, but we never met again in the same way. They are all at rest now. The last time I saw old William Smith he was standing outside his shop door with his white apron tied round his bulky body, as he had worn it since he was a boy, and he looked the very personification of a jolly, good-natured old farmer, which he was. He invited me out to his farm, where he said he had plenty of good water, and he could always put a little of something into it to improve it; but I never went, much to my regret now. His son "threw physic to the dogs," and has carried on his father's farm, which is more to his liking.

## EXAMINATION EXPERIENCES IN 1872

I passed my Preliminary examination while I was with Mr. Moore in the early summer of 1872. The examinations were then held in rooms above Elliott, the bookseller's (or near there), at the east end of Princes Street. All three examinations—Preliminary, Minor and Major—were conducted in one day, and were completed in one day. Old Mr. John Mackay, a well-known and greatly respected chemist in his day, represented the Pharmaceutical Society on that occasion, and presided over the Minor and Major examinations; while Mr. Noble, of Stockbridge, afterwards a partner in the firm of Duncan, Flockhart & Co., was in charge of the Preliminary room. There were twenty-four of us up that day for the "Prelim.," and we got an hour for each subject—English, Latin, and arithmetic. While I was waiting to be called up there was a knock at the door and a gentleman entered, saluting us all very distinctly with, "Good-morning, gentlemen." Everyone looked up to see who had been so daring as to make such a remark in the presence of a solemn assembly of young chemists, waiting as if for their doom. No one replied, for we are not much used to polite salutations of that kind

in Scotland. I knew the voice in a moment to be that of Mr. Green, one of the managers of Grat-tan's, of Belfast; and as I hadn't seen him since I left there, nearly three years previously, I got up and shook hands with him, very pleased to see him. We sat and talked quietly for a few minutes. He had in his hand a number of small books, and I ventured to ask what they were. He said, "These are my notes; I have been reading them all the way over in the boat." I saw him after the examination



Photo]

STIRLING CASTLE

[J. V.

was over, and he told me he had not been asked a question that he couldn't answer. Anxious, however, to know how he stood before leaving, he went up to Mr. Mackay and asked if he thought he had passed. Mr. Mackay jokingly replied, "If you don't see your name in the paper to-morrow morning, Mr. Green, you will know that you haven't passed." Of course, his name was in the paper; so was mine, as the "Scotsman" published the names of all those who were successful the morning after the examinations.

Taking away with me many pleasant memories of the two years I had been in that historical old town, Stirling, with its beautiful highland surroundings, and not forgetting to go early on the morning I left to steal a rose from the front garden of a house in which I had spent many a happy hour (which rose—"flower of remembrance"—I still preserve though nearly fifty-three years have rolled by since then), I next went to Edinburgh, to a wholesale house, with the view of getting time to study for my Minor examination, as the hours were shorter in the wholesale than the retail; but I was soon sent out to travel the town and surrounding country, which was work I did not like. Some of my friends reminded me of the saying that "a rolling stone gathers no moss." I was aware of that, but could not see that there was much moss to be gathered from the salary I was getting, after paying for lodgings and everything else I required in a city like Edinburgh, so I made up my mind to roll on.



## Pharmaceutical Society of Northern Ireland

An adjourned meeting of the Council of the Pharmaceutical Society of Northern Ireland, was held on January 4, at the Ministry of Finance, Belfast, Mr. Horatio Todd, J.P. (President) in the chair. There were present Messrs. F. Storey (Vice-President), F. T. Smith, J.P., H. Lancashire, J.P., S. S. Badger, J.P., J. C. Culbert, W. J. Hardy, Andrew Wilson, W. E. Wilson, A. C. McBride, J.P., H. Pring, M.B.E., W. J. Rankin, Joseph Moffet, Jas. Dundee, S. Suffern, and Dr. S. E. A. Acheson. Mr. David Kilpatrick, M.P.S.I., acted as secretary *pro tem*.

### GREETINGS

At the outset Mr. McBride said the pleasant duty devolved on him of wishing the President a happy and prosperous New Year, and expressing the hope that their Society might go on and prosper. The President, in reply, said he had intended wishing the members a happy New Year, but Mr. McBride had forestalled him. He thanked him very much and cordially reciprocated his greetings. The President reported that he had received greetings from the Pharmaceutical Society of Ireland, and the following reply had been sent to Dublin:—

On behalf of the Council of the Pharmaceutical Society of Northern Ireland and myself personally, I beg to thank you for remembering us on this our first Christmas. We all have happy recollections of our parent Society, and the younger generation will, we feel certain, be glad to regard you as a big brother. We hope as time goes on the good fellowship now existing will be cemented more firmly. We look forward to another Christmas when we hope to be in a position to reciprocate your greetings in a proper manner. With best wishes for a bright and prosperous New Year. (Signed) HORATIO TODD (President).

The President extended a cordial welcome to Mr. W. D. L. Greer, of the Home Office, the newly appointed Registrar of the Society.

A letter was read from the Minister of Home Affairs approving of the regulations, dated December 17, made by the Council under Section 3 of the Pharmacy and Poisons Act.

### CORRESPONDENCE

The secretary read the following correspondence:—

F. O. Devlin wrote: I would be glad if you could let me know, for the information of my students: (1) The date of the first Preliminary examination, to be held by the Pharmaceutical Society of Northern Ireland. (2) The nature of the syllabus of this examination. (3) The examinations conducted by other bodies that will be accepted by your Society in lieu of their own Preliminary.

The matter was referred to the Education Committee.

A letter dated December 29 was read from an apprentice in the Free State, in which he said:—

As I have served three years' apprenticeship to chemistry in the Irish Free State, I should feel obliged if you would let me know would that time be recognised by the Pharmaceutical Society of Northern Ireland, if I served my fourth year there? I have registered in the Pharmaceutical Society of Ireland in Dublin in January 1923. I should also feel grateful if you let me know, would I have to register in Northern Ireland also, if I serve my fourth year apprenticeship there, and what would be the cost of registration?

The matter was referred to the Education Committee, as was also a letter from Larne asking what sort of an examination would replace the Preliminary formerly held at Dublin. A letter addressed to the North Pharmacists' Association was read from Miss E. F. McCausland, Pharmacy Department, Victoria University, Manchester, in which she said:—

I served my apprenticeship (four years) in Northern Ireland and could not manage to get day classes in either Dublin or Belfast, and so I came here, intending to take the English qualification, but find that though my Preliminary examination (Ph. S., Ireland) is recognised, my apprenticeship is not, and I should have to serve two years further in this country before I could sit for Qualifying examination. This does not quite suit me, however, and I should like to know if my training at this University would be accepted and would allow of my sitting for North of Ireland Pharmaceutical Society's Qualifying examination,

and when such examination is likely to be inaugurated, and where held?

The letter was referred to the Education Committee.

### THE APPOINTED DAY

The PRESIDENT said the appointed day, December 21, came as a surprise to everybody. In accordance with the decision of the Committee, he had been to the Home Office in company with Mr. Storey, and hoped they would be able to get things settled satisfactorily.

Mr. STOREY said that the matter had been thoroughly threshed out with Mr. Magill, of the Home Office, and the Chief Crown Solicitor. Druggists could come in under the hardship clause, but pharmacists could not, unless they were members of an existing society, and those appointed were only licentiates, while there was no clause dealing with qualified assistants. The Home Office did its best to help them, but the licences must be issued before January 1, 1926, and applicants must be registered before being licensed. They had thought the appointed day was like a movable feast, and could be put on till October, but it could not. The Home Office tried all they could to help them.

Mr. McBRIDE said they were in a very awkward position. What they should do was to make it a year in advance from January 1, and that should be suggested to the Ministry. It was not likely their Society would have any examination before July.

Mr. DUNDEE thought they had power to make regulations to deal with every case of hardship.

Dr. ACHESON said there was no way in which they could accept a druggist or assistant to a Ph.C. who had qualified after the appointed day without a Northern examination.

The REGISTRAR, in reply to the President, said in his opinion they could not recognise in any way a qualified assistant who had gone for the January examination in Southern Ireland, unless they re-examined him.

Mr. CULBERT, after further discussion, gave notice of motion that the examinations, Preliminary, Assistants', and Final, of the P.S.I. be recognised by the Northern Ireland Society until February 1, 1927.

The PRESIDENT: Have we the power?

Mr. CULBERT: The clause coming forward will eventually give us the power.

The PRESIDENT said these things would come right in the end.

Mr. DUNDEE said hundreds of men were involved, and he thought that the date should be extended till 1923.

Mr. CULBERT's notice of motion was accepted, and will be discussed at the next meeting.

### PROFESSOR MACILWAINE'S RESIGNATION

A letter was read from the Senate of Queen's University that they had appointed Professor James Small to represent the University on the Council in room of Professor J. E. MacIlwaine, resigned.

The PRESIDENT said he had received a letter from Professor MacIlwaine, in which he said: "In the first place, it was exceedingly doubtful whether I could attend the Council meetings with any regularity, and on discussing this with the Vice-Chancellor we both considered it most important that the University representative should actively take part in the work of the Council. This was thought to be specially necessary in the early days of the Council's work, consequently my resignation was immediately accepted, and Professor Small has been appointed."

### GENERAL PURPOSES COMMITTEE

Arising out of the report of the General Purposes Committee of December 14, a number of matters was discussed. It was decided to readvertise for a part-time secretary to the Council, the duties being amplified and the salary increased from £100 to £200, candidates to be pharmaceutical chemists, chemists and druggists, or druggists, and residents in Belfast. The President and Vice-President were empowered to rent a room at 29 Wellington Place as a temporary office of the secretary for one year. Four members were fixed as the quorum at all committee meetings. A temporary seal was submitted and approved. Mr. Storey submitted a series of regulations based on the calendar of the Pharmaceutical



Society of Ireland and the English Society, and these were all adopted save one dealing with the length of time which must elapse before a resolution could be altered or rescinded. Mr. Hardy said there was no such regulation in the Dublin calendar. Various times from six weeks to six months were suggested before a rescinding motion could be taken up, and eventually, on the motion of Mr. McBride, the matter was referred back to the General Purposes Committee. The other regulations were approved. One of them provides that the monthly meeting of the Council shall be held on the third Friday of each month. Mr. F. T. Smith, J.P., intimated his intention to resign his seat on the General Purposes Committee in favour of Mr. Joseph Moffet, as he was on the other two committees.

#### LABELLING OF POISONS ORDER

The following letter from the editor of THE CHEMIST AND DRUGGIST, dated January 1, was read:—

The Labelling of Poisons Order issued by the English Privy Council, which comes in force in Great Britain to-day, does not extend to Northern Ireland. The reason is as follows: The Dangerous Drugs and Poisons (Amendment) Act, 1923, contained a Section (4) amending Section 17 of the Pharmacy Act, 1868, and gave power to the Privy Council to make the Labelling of Poisons Order. There is no mention of the corresponding Section (2) of the Sale of Poisons (Ireland) Act, and the 1923 Act states that it does not extend to Northern Ireland, except in so far as it amends the Dangerous Drugs Act, 1920. As the Pharmacy Act, 1868, does not apply to Ireland, it is obvious that it is only by an amendment of the Sale of Poisons (Ireland) Act that the same effect can be obtained. The new Northern Ireland Act does not, so far as we can see, touch the point, so that in Northern Ireland you are in the same position as we were before the amendment of Section 17, which is that only the "name of the article" is to be given on a preparation containing a scheduled poison which is, for example, "cough mixture." The effect of altering the word "article" to "poison" in our Act is to make it necessary to state the proportion of each poison.

#### REGISTRATION OF APPRENTICES

Discussion took place as to the question of the registration of apprentices, and, in reply to Mr. Hardy, the Registrar said he could only register them from the date on which their letters were received. He could not register them from a date prior to the Act. Several members pointed out the hardship in the case, say, of an apprentice with three years' service and one to go, and the view was expressed that the difficulty could be met by regulation and the matter was left over for future consideration.

Mr. CULBERT gave notice of a lengthy motion for next meeting to define the statutory descriptions of the various grades in the trade, with a view to carrying into effect the law as stated in Section 4 (3) (i) (k) and Section 18 (2).

Mr. SMITH raised a question on this, but the President ruled that there would be no discussion till next meeting.

**PHARMACY WEEK.**—Reports from all parts of the United States seem to indicate that pharmacy week, originated by Dr Robert J. Ruth, was a great success, and will become an annual celebration. Philadelphia did splendid work with thousands of window displays, newspaper articles, radio addresses and lectures. Old prescription books, mortars and pestles, filters, microscopes, crude drugs, were typical window displays. It is estimated that over 50 per cent. of American druggists gave their support.

**THE SHORTAGE OF CLINICAL THERMOMETERS** in France, due to the tardiness in the official stamping, about which pharmacists have recently complained, is stated to have been due to the delay in voting the Budget. The administration responsible for the stamping was unable to take on the number of extra hands required until the necessary credit was actually voted. Thus the number of unstamped thermometers, about 300,000 at the end of 1924, had increased to 800,000 before the Minister of Finances decided to demand a supplementary credit to pay extra men to work off the arrears.

## Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

### ENGLAND AND WALES

#### Local Reports

**Sheffield.**—At a meeting of the Insurance Committee, held on January 5, it was reported that a special sub-committee has been appointed to consider the analyst's report on a number of samples submitted for analysis. The emergency dispensing account for medical practitioners in December amounted to £232 6s. 9d.

**Staffordshire.**—The Insurance Committee, at a meeting on January 2, had under discussion a report of the Pharmaceutical Service Subcommittee in reference to certain cases in which dispensing had been done by unqualified men. The Committee decided to press for the imposition of a penalty of £1. In another case the Pharmaceutical Service Subcommittee considered that a chemist had not, since August 30, satisfactorily discharged the obligations under his agreement with the Insurance Committee. A prescription presented on October 9 at a branch was not dispensed with reasonable promptitude. It was also stated that the obligation to supply a container was not fulfilled in connection with medicine dispensed at another branch shop of the same chemist. The committee decided to press for the imposition of a penalty. Statistics were presented by the Medical Benefit Subcommittee relating to the number and cost of prescriptions made up during the quarter ended September as follows:—

Year	Persons on doctors' list	No. of Prescriptions	Total cost £. s. d.
1925 .. ..	221,206	185,048	6,056 10 4
1924 .. ..	214,695	160,981	5,219 13 10
1923 .. ..	203,350	143,548	4,648 8 10

The average cost worked out at 6.7d. per insured person against 5.8d. in 1924 and 5.5d. in 1923.

**Yorkshire (West).**—The West Riding of Yorkshire Insurance Committee, at their meeting on December 31, passed a resolution recommending the National Association of Insurance Committees to consider the inauguration of a scheme for the testing of medicines dispensed by doctors for panel patients, just as there is now a system of testing the medicines dispensed by panel chemists.

## Associations' Winter Session

**Thames Valley.**—The Thames Valley Pharmacists' Association held a meeting on January 13, the President (Mr. W. S. Howells) in the chair. A paper, illustrated with lantern slides, was read by Mr. J. C. White, technical director of D. & W. Gibbs, Ltd., on Soap Manufacture. The speaker traced the history from the raw material to the finished article, drawing attention to the difficulties soap makers had to overcome. The manufacture of soap, for example, rested not only on the various tests as made in the laboratory, but on the knowledge of the workman, who had learnt by experience when the moment had arrived to cease the various processes in its manufacture. A man might be a good chemist but a bad soap-maker. Many questions were asked the speaker, one of which was the reason for the varying qualities of *sapo mollis* that was encountered, his explanation of which, was the right moment when to add the water to make it of the correct consistency probably accounted for the varying samples.

**INDIAN MONAZITE.**—There was a further recovery in the output of monazite in Travancore from 246.3 tons, valued at £3,697, in 1923, to 622.3 tons, valued at £9,301.5, in 1924.

**SEYCHELLES ESSENTIAL OILS.**—After the copra industry, the distillation of essential oils holds the place of next importance in the colony's industries. The distillation of cinnamon oil was continued energetically, and increasing interest has been shown in the distillation of patchouli, basil, and lemon grass oils. The total export of essential oils of all kinds in 1924 amounted to 34,612 litres, valued at Rs. 324,887. The export in 1923 amounted to 38,415 litres.



## Some New Essential Oils

A REPORT has been issued recently by the Imperial Institute on some new essential oils ("Bulletin of the Imperial Institute," Vol. XXIII, No. 4, p. 428), in which the following are described:—

### OIL OF MEDANG LOSOH

Two samples of the oil known locally by this name were distilled in the Federated Malay States from the wood of *Cinnamomum parthenorythum*. This is a lofty tree, from 30 to 100 feet in height, occurring in the woods in the hilly districts of Malaya. The oils had a pronounced odour of safrol, and had the following characters:—

	1	2
Specific gravity .. .. .	1.103	1.103
Rotation .. .. .	0°	0°
Refractive index .. .. .	1.538	1.538
Ester value .. .. .	0.8	—
Ester value (acetylated) .. .. .	3.5	—
Congeeing point .. .. .	10°	10.5°

These results are in accord with those already obtained for this oil as distilled in Malaya and Java, and confirm that the oil consists mainly of safrol—which is present to the extent of about 90 per cent.

### PAPUAN MASSOI BARK OIL

Two samples of massoi bark from Papua were received. The bark, according to Mr. Lane-Poole, is obtained from two or three species of *Cinnamomum*, which have a wide distribution in New Guinea, having been found by him all round the island from the gulf of Papua to the Sepik river, as well as in the neighbouring islands of New Hanover and New Ireland. The two specimens of oil had the following characters:—

	1	2
Specific gravity at 15° .. .. .	1.060	1.064
Rotation .. .. .	-0.9°	-0.34°
Refractive index at 20° .. .. .	1.534	1.536
Phenols .. .. .	60%	79%

The phenolic portion of the oil is mainly eugenol. Terpenes and safrol are also present.

### OIL OF ORIGANUM MARU

This Cyprus marjoram oil has the following characters, in comparison with which those of Spanish marjoram oil are given:—

	Cyprus oil	Spanish oil
Specific gravity .. .. .	0.904	0.895 to 0.910
Refractive index .. .. .	1.4775	1.4725 to 1.4775
Rotation .. .. .	+9.27'	+15° to +20°
Ester value .. .. .	4.1	10 to 30
Ester value (acetylated) .. .. .	74.5	—
Phenols .. .. .	2.5	—

The following essential oils have also been reported on by other investigators:—

### OIL OF MANUKA

Gardner ("Journal of the Society of Chemical Industry," 1925, 528T.) has made an investigation on the essential oil of *Leptospermum scoparium*, known in New Zealand as "manuka." The average yield of the oil was about 0.4 per cent. of the weight of leaves and twigs taken. The oil examined had a specific gravity 0.933 at 20°, and a refractive index 1.5030. The optical rotation is between +3° and -3°, an accurate determination being impossible on account of the dark colour of the oil. The following constituents were detected in the oil: Leptospermol,  $C_{14}H_{26}O_4$ , was originally detected in the oil of *Leptospermum flavescens* by Penfold and described by him as a phenol. Gardner has established the identity of Penfold's leptospermol with a body present in oil of manuka, and has shown that it is not a phenol, but an acid. Leptospermol has the following characters: Specific gravity at 20°=1.072; optical rotation, 0°; refractive index, 1.5005. The proportion of terpenes present is very small, and the terpene present has not been identified. Citronellol, in combination with cinnamic acid, and probably other acids, is present in the form of esters. A high-boiling alcohol, probably a sesquiterpene alcohol, is present. The greater portion of the oil consists of a sesquiterpene which is similar in

characters to eudesmene, but which yields a monohydrochloride, whereas eudesmene yields a dihydrochloride. The name manukene is provisionally suggested for this sesquiterpene.

### ESSENTIAL OILS OF MURRAYA

Penfold and Simonsen ("Journal and Proceedings of the Royal Society, New South Wales," 1925, 146) have examined the essential oils of the leaves of three species of murraya. *M. Koenigii* occurs in the outer Himalayas, from the Ravi eastwards ascending to 5,000 feet, in Assam, Chittagong, Upper and Lower Burma, Chutia Nagpur, and Bengal. *M. exotica* is found in the sub-Himalayan tract from the Ravi eastwards, ascending to 4,500 feet in Assam, Upper and Lower Burma, Chittagong, Behar, the Satpura range, Chutia Nagpur, the hills of the Peninsula, and in the Andamans. *M. exotica*, var. *ovatifoliolata*, is an Australian plant occurring chiefly in Queensland, and is a small shrub with light green leaves. The oil from the leaves of *M. Koenigii*, which was obtained in a yield of 0.04 per cent., is of pale yellow colour, and unpleasant odour. It has a specific gravity 0.871 at 30°; refractive index, 1.4780 at 30°; optical rotation, -18.2; acid value, 1.1; saponification value, 11.06; and saponification value after acetylation, 31.83. It was found to contain  $\alpha$ -pinene as its principal constituent. Sabinene was also found to be present, as well as caryophyllene. Traces of palmitic acid in the form of an ester were also present. The oil from the leaves of *M. exotica* (0.01 per cent.) had a specific gravity 0.9023 at 15°; refractive index, 1.496 at 22°; saponification value, 3.87; and saponification value after acetylation, 72.53. Cadinene and another sesquiterpene, not identified, were found present, and probably a small quantity of methyl anthranilate. Three specimens of the oil from the leaves and terminal branchlets of *M. exotica*, var. *ovatifoliolata*, were examined and found to have the following characters:—

	1	2	3
Yield .. .. .	0.15%	0.06%	0.12%
Specific gravity at 15° .. .. .	0.9126	0.9117	0.9121
Refractive index at 20° .. .. .	1.5008	1.5004	1.4990
Rotation .. .. .	-24.7°	-10°	-14°
Saponif. value .. .. .	19.37	26.18	19.83
Saponif. value (after acetylation) .. .. .	68.55	—	—

A sesquiterpene, probably bisabolene, was found present, and a sesquiterpene alcohol not identified. Caprylic acid in the form of esters is also present.

### OIL OF MELALEUCA UNCINATA

Penfold ("Journal and Proceedings of the Royal Society, New South Wales," LIX, 124) has examined the solid alcohol melting at 72.5° isolated by Baker and Smith from the essential oil of *Melaleuca uncinata*. These authors stated that it had the formula  $C_{15}H_{26}O$ , and a specific rotation +36.99° in absolute alcohol, and closely resembled terpineol. It was named uncinol. Penfold has isolated it in a much purer condition than did Baker and Smith. From a mixture of four batches of the oil, the solid alcohol was ultimately obtained with a melting point 81°-82°. The oils had the following characters:—

	1	2	3	4
Specific gravity .. .. .	0.934	0.927	0.934	0.929
Rotation .. .. .	+9.5°	+4.45°	+8°	+4.6°
Refractive index .. .. .	1.4762	1.4689	1.4727	1.4700
Cineol .. .. .	40%	59%	46%	53%
Ester No. .. .. .	4.3	2.0	2.8	24.2
Ester No. (after acetylation) .. .. .	108.5	56.1	119.5	76.6

The mixed oils were fractionated, and the portion distilling at about 275°-286° at atmospheric pressure was worked up for the solid alcohol. It solidified to a buttery mass on standing, and was pressed on a porous plate to remove sesquiterpenes. On repeated crystallisations from a mixture of ethyl alcohol and water it was finally obtained in feathery crystals melting at 80° and having a specific rotation +33.8° in chloroform. It gave a molecular weight result of 227 by the boiling-point method ( $C_{15}H_{26}O=222$ ). When heated with dry hydrochloric acid gas the alcohol gave eudesmene hydrochloride melting at 75°-76°. There appears to be no doubt that uncinol is identical with eudesmol.



## Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, January 14.

BUSINESS during the week under review has been exceptionally quiet as the stock-taking period has not yet been completed, and buyers are not yet prepared to enter freely into fresh engagements: The drug auctions, however, will be resumed next week, when this should give a lead to more general buying. We hear that a fair number of inquiries have been received from the Continent, which has undergone an extremely quiet period during the past few months. One of the bright features is the sharp improvement in sterling in terms of the dollar, and the prospect of international loans being granted on a larger scale in order to assist European trade should give a more confident feeling. In the produce markets, there has been a decided reaction in some of the leaders, such as rubber, sugar, pepper, cloves, shellac, Japanese peppermint oil and menthol, and this has had an unsettling effect on prices. Drugs show few changes. Matto Grosso ipecacuanha is very firm, and cascara sagrada is the turn easier, following on realisations. Mazagan canary and Manchurian hemp seeds are a trifle cheaper. In the essential oil group, lemon continues to advance at the source, while Japanese dementholised peppermint oil has further declined on "bear" selling. Juniper berry is dearer. Higher prices have been paid for sandal wood at the "outside" auctions in India, but prices of oil are so far unaltered. Among pharmaceutical chemicals there is little change to record. Acetanilide and potassium permanganate are slightly easier. Theobromine is lower. Among industrial chemicals, business is fairly good, with few changes. Acetate products are all firm, sodium acetate being scarce and dearer. Commercial glauher's salt is easier, and oxalic acid has a firmer tendency; red lead is much higher. In coal tar products, business has improved somewhat, following on the price alterations last week. Carbolic acid has a firmer tendency, and pyridine is steadier. Among so-called vegetable oils and allied products, business has been quiet, and a number of items are easier. Castor is dull and cheaper; cotton, ground nut, palm and soya are also easier. Linseed and turpentine have been irregular, but cheaper on balance.

Higher	Firmer	Easier	Lower
Eserine salts Juniper berries Juniper berry oil Lemon oil Pennyroyal oil Red lead Sodium acetate Wood oil (Haukow)	Carbolic acid crystals Cocoa butter Oxalic acid	Acetanilide Canary seed (Maz.) Caraway oil Cod liver oil Copaiba Coriander oil Cotton oil Croton chlor. hydrate Geranium oil Glauber's salt (coml.) Ground nut oil Hemp seed Palm oil Soya oil	Cassia oil Castor oil Cloves (Zan., c.i.f.) Linseed (Mor.) Linseed oil Menthol Peppermint oil (Jp.) Pepper Potash permanganate Rubber Salol Shellac Soda salicylate Theobromine Turpentine
	Steadier		
	Pyridine Sodium prussiate		

The first drug auction of the year will be held next Thursday, January 21.

### Cablegrams

BERGEN, January 11.—The market for finest steam-refined Lofoten 1925 oil has declined to 142s. per barrel c.i.f.

NEW YORK, January 13.—Business is fair. Peppermint oil in tins is steady at \$26.00 per lb. Menthol is lower by 25c. per lb. at \$6.25. Burdock root is cheaper at 9c.; short buchu has been reduced to 52c. per lb., and mercury is \$1.00 lower at \$87.00 per flask.

### Crude Drugs, etc.

ALMOND OIL.—B.P. sweet oil is now 4s. per lb.

ANTIMONY has shown some irregularity. English high-grade refined was raised to £110, although some refiners are sellers at £105. Of Chinese regulus, holders on the spot are asking £105, but business is seemingly possible at well under this. Parcels afloat for near arrival might be had at £101, and January-February shipment has been offering at £95 c.i.f. Chinese crude is quite nominal at £67 per ton.

BALSAMS.—Good bright *Tolu* is steady at 4s. 9d. per lb. *Copaiba* is easier at 1s. 9½d. per lb. for B.P. *Peru* is obtainable at 6s. 6d. per lb. for genuine as imported. *Canada* can be had at 5s. for good opaque.

BELLADONNA ROOT is offered at 45s. per cwt. for 0.46 per cent. Belladonna leaves can be had at 72s. 6d. per cwt.

BISMUTH.—An arrival of 2,240 lb. metal has taken place from Spain.

CARAWAY SEED.—Dutch for prompt shipment offer at 25s. to 25s. 6d. per cwt. c.i.f., and for new crop for August-September shipment 27s. c.i.f. is quoted.

CARDAMOMS.—An auction of 70 cases Ceylon and Indian will be held on January 14.

CASCARA SAGRADA.—Some spot parcels have been disposed of recently at low figures, but it is doubtful if the business could be repeated. A fair average value of last year's peel is 57s. 6d. per cwt. on the spot.

CLOVES are quiet and easier, with Zanzibar offering at from 10½d. to 11d. per lb. on the spot; to arrive, January-March shipment is 10½d. per lb. c.i.f. delivered weight, being cheaper. The landings in London during the week ending January 9 were *nil* and the deliveries 79, leaving a stock of 14,121 bales, against 14,264 in 1925 and 28,247 bales in 1924. The present London stock of Zanzibar is 14,121, against 14,264 in 1925, and the deliveries 79, against 749 in 1925.

COCA BUTTER is firmer at 1s. 4d. per lb. for C.F.R. and 1s. 3½d. for prime English, in not less than one-ton lots. At auction on Tuesday 200 cases Brazilian sold at from 1s. 0½d. to 1s. 1½d. per lb.

COD-LIVER OIL is offered at 148s. per barrel c.i.f. for finest non-freezing steam-refined Lofoten 1925 oil, ex wharf London, and 142s. per barrel c.i.f. London. The official inspection of the Lofoten cod fishery will commence on January 25.

DIGITALIS LEAVES.—Good green genuine offer at 60s. per cwt. c.i.f.

GENTIAN varies from 28s. 6d. to 29s. 6d. per cwt. on the spot for good dry French.

GINGER is quiet, with sellers of new-crop West Coast African at 50s. per cwt. c.i.f. terms, and on the spot 55s. is quoted, with a fair quantity on offer. Japanese is nominal at 82s. 6d. per cwt. on the spot. Jamaica is steady, small offering at 80s. to 90s., and bold 100s. to 110s. per cwt.

GLUCOSE.—American guaranteed water white for January-March delivery is quoted at 21s. 3d. per cwt., duty paid, landed terms.

HYDRASTIS can be bought at 20s. 6d. per lb. on the spot. In one direction the U.S. price has advanced to \$5.35 (say 22s.), with instructions not to sell.

IPECACUANHA.—Matto Grosso remains very firm, with small sales at 12s. 6d. per lb.

JUNIPER BERRIES still continue very scarce, and sellers now ask 27s. 6d. per cwt. on the spot.

LIQUORICE ROOT.—Smyrna natural is offered at 13s. 6d., Russian at 13s., and Anatolian at 15s. per cwt. on the spot.

MENTHOL.—A further slight decline has taken place, with sellers quoting Kobayashi-Suzuki at 26s. 6d. per lb., and five-case lots at 26s. on the spot. Sellers of January-March shipment ask 22s. c.i.f.

MERCURY.—There has been no apparent change in the market, which is quite firm, despite the restricted amount of business doing on the spot on the basis of £15 to £15 7s. 6d. per bottle, as again paid just lately. The supplies available are, so far as can be gathered, very restricted, and offers from the mines on the Continent are of no special importance.

PEACH KERNEL OIL.—Sales of French are reported at 2s. 8d. per lb.

PEPPER is lower. Fair black Singapore has sellers at 1s. 4d. on the spot. To arrive, January-March shipment



has been sold at 1s. 4½d. to 1s. 2½d., March-May at 1s. 5d. to 1s. 3½d. c.i.f. Lampong on spot is 1s. 5d., and January-March 1s. 2½d. c.i.f. Tellicherry for January-March is 142s. 6d. c.i.f., and Alleppy 137s. 6d. c.i.f. White Muntok pepper is cheaper at 1s. 6d. on the spot; January-March has been done at 1s. 5½d. to 1s. 5¾d. to 1s. 4½d., March-May at 1s. 6¾d. to 1s. 7d. to 1s. 6d. c.i.f., f.a.q. Singapore on the spot is 1½d. cheaper at 1s. 6d., and January-March shipment 1s. 4½d. c.i.f.

PIMENTO has been quiet and unchanged, spot being quoted at 8d. per lb.

RUBBER is again lower for spot and the near positions by about 1d. per lb.; on the other hand, the April-June position has not fallen away in sympathy, but is ½d. per lb. better than last week's price. The market, however, continues very dull, with no sign of activity from either America or the Continent. The forward positions are being kept steady by "bear" coverings on any small drop. Although inquiries for near rubber are being received from America, only retail lots and purchases made some months ago are being shipped. As anticipated, the feature of the market is the large quantity arriving from the East, and last week 2,335 tons were landed and 1,145 tons delivered, with a net increase of 1,190 tons on the stock. The present London stock stands at 7,319 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard crepe and ribbed smoked sheet, spot and January, 3s. 6¾d.; January-March, 3s. 6½d.; April-June, 3s. 3¼d. per lb.

SEEDS.—There is no change to record in the seed market, and values remain unaltered. Prices are as follows:—CUMIN, Maltese, spot 38s. per cwt., and forward 31s. per cwt.; Morocco, 37s. to 40s. per cwt., according to holder. ANISE.—Spanish, 52s. 6d. per cwt.; Russian, 50s.; Levant, 45s. CANARY.—Mazagan is a trifle easier, with sellers at 28s. 6d., and good bold Spanish at 34s. 6d., and small at 30s. 6d. per cwt. CORIANDER.—Morocco is 16s. to 16s. 6d. per cwt., and DILL is 20s. 6d. per cwt. FENUGREEK, Morocco, 14s. per cwt. HEMP, Manchurian, 15s. per cwt. LINSEED.—Mazagan is quoted at 25s. per cwt. MUSTARD.—It is still difficult to obtain offers of English.

SHIELAC is lower, usual standard TN orange quality offering at 195s. to 200s., fine second orange 240s., superfine 270s. to 310s., and AC cakey 205s. Delivery prices are lower, the sales including March at 185s. to 175s., May at 180s. to 172s. 6d. To arrive, TN for January-February shipment has declined 5s. per cwt. to 172s. 6d. c.i.f. Calcutta is rs. 81.

SQUILL.—Best white qualities are scarce at from 20s. to 25s. per cwt., and secondary grades are from 15s. to 20s.

STARCH PRODUCTS, ETC.—Dutch maize starch powder is steady at 15s. per cwt. on the spot, and for January-March shipment 14s. 6d. f.o.b. is quoted. American for January-March delivery is 14s. 9d. Pearl starch for January-March delivery is 14s. 3d., ex store London. Dutch farina is 16s. per cwt. on the spot, and 14s. f.o.b. for January shipment. Dutch maize starch crystals is 20s. 6d. on the spot, and American 21s. net per cwt., ex store, London, for January-March delivery. Dutch dextrin is 23s. for superior on the spot, and 21s. 9d. for No. 2. American canary is 18s. 3d. for January-March delivery. White for January-March 18s. 3d. per cwt., ex store London, and 19s. for January delivery.

STRAMONIUM LEAVES can be had at 48s. per cwt. on the spot.

WAX VEGETABLE.—Carnauba is steady, with fatty grey offering at 165s. per cwt. on the spot and January-February shipment at 145s. c.i.f.

### Essential Oils

FURTHER advances have taken place in lemon and juniper berry oils. Pennyroyal is also dearer. Caraway has declined in absence of demand, and geranium oil is again weaker. Business has been done in cassia oil at cheaper rates, and Japanese peppermint is lower. There is very little demand for eucalyptus. Java citronella has been in demand at cheaper rates.

The Board of Trade returns of imports and re-exports of essential oils (excluding turpentine) for the complete year, together with comparisons for the two previous years, are given below. It will be seen that our reduced imports cost

slightly more, and that re-exports were almost stationary compared with 1924.

		Imports		
		1923.	1924.	1925.
December	... lb.	374,472	417,893	348,761
		£81,049	£119,695	£158,010
January-December	... lb.	3,914,584	4,240,640	3,857,136
		£960,449	£1,198,641	£1,222,044
		Re-exports		
		1923.	1924.	1925.
December	... lb.	90,899	130,887	65,349
		£33,713	£30,664	£24,486
January-December	... lb.	865,007	1,168,823	1,009,703
		£371,789	£398,202	£379,553

ANISE (STAR).—"Red Ship" is unchanged at from 3s. 2d. to 3s. 3d. per lb., and for shipment at 2s. 9½d. to 2s. 11d. c.i.f.

CANANGA is scarce at from 12s. 6d. to 13s. per lb.

CARAWAY.—In the absence of demand, prices have declined. Spot sales of Dutch double-rectified have been made recently at 6s. 6d. to 6s. 9d. per lb. Forward offers range from 6s. to 6s. 6d. c.i.f., according to quantity.

CARDAMOM.—New arrival oil is quoted at 125s. per lb.

CASSIA is cheaper to come forward at 7s. 9d. per lb. c.i.f. to arrive for 80 to 85 c.a., with sales thereat. On the spot sales have been made at 9s. 3d. and sellers.

CITRONELLA.—Ceylon is about steady at 2s. 3d. per lb. on the spot, and 2s. 1d. c.i.f. to arrive. There has been a small demand for Java, which is cheaper, to arrive at 3s. c.i.f. Spot is steady at 3s. 3d.

CLOVE on the spot is quoted at from 6s. 6d. to 6s. 9d. per lb.

CORIANDER is cheaper, with spot sellers at from 24s. to 26s. per lb.

DILL.—B.P. oil is quoted on the spot at 11s. per lb.

EUCALYPTUS is slow of sale at 1s. 8½d. per lb. for 70 to 75 per cent. cineol.

GERANIUM.—Bourbon has again declined for shipment, with sellers at 11s. 3d. per lb. c.i.f. Spot is quoted at 12s. 6½d., but sellers would probably accept less. Algerian is obtainable at about 11s. per lb. c.i.f., with spot offering around 12s. 6d.

JUNIPER BERRY.—B.P. oil is dearer, spot sellers asking from 8s. 6d. to 8s. 9d. per lb.; in some directions 9s. 6d. is asked for February delivery.

LEMON.—Spot sales have been made during the week at 6s. 6d. per lb., but the general quotation now ranges from 6s. 9d. to 7s. per lb. Some brands are held for still higher prices. Shipment prices range from 7s. 2d. to 7s. 5d. c.i.f., and business has been done at 7s. 3d. c.i.f. for a well-known brand.

PALMERO, January 6.—The demand for fresh lemons has been so active during these last weeks that many parcels which, under normal conditions, would have been used for pressing purposes, have instead been sold to exporters of green fruit. Pressings have consequently been limited during a period which generally is one of great activity, and as crop prospects are by no means good this season it is unlikely that the shortage in production will be compensated by pressings later on. Although demand from abroad is quiet at present, the market remains very firm, and higher prices have had to be paid.

LEMONGRASS.—Cochin is quiet but steady at 4s. per lb. on the spot or c.i.f.

PENNYROYAL.—Sales of Spanish on the spot have been reported at 10s. 6d. per lb., and higher prices are anticipated.

PEPPERMINT.—The market for Japanese dementholised oil has further weakened, owing to continued "bear" selling, and it is reported that between 250 and 300 cases on behalf of weak sellers changed hands on Monday and Tuesday for January-March shipment at 10s. 6d., 10s. 9d. and 11s. per lb. c.i.f. Subsequently Japan sent orders to buy at 11s. c.i.f. This consistent manipulation has more or less demoralised the market, and it remains to be seen whether the large quantities of January-March oil that have apparently been sold "short" will be delivered, as there is also a large "bear" account open in Japan. The spot value of Kobayashi-Suzuki is now 16s. to 16s. 6d. per lb. American peppermint is slightly easier in the absence of demand, good brands offering at 115s. to 120s. per lb.

SANDALWOOD.—We understand that a rumour, emanating from a Continental source, to the effect that the Mysore factories are to stop distillation is entirely without foundation. It has arisen probably from the fact that, in order to overcome the tariff of 25 per cent. levied on oils entering U.S.A., the Mysore Government has made arrangements to ship the wood direct to the States, and distil the oil in New York. At the recent auctions it is reported that prices were 20 per cent. higher than last, and only small quantities of wood were offered, both at Coorg and Madras. At the prices paid it is estimated that the cost of distilling the non-monopoly oil cannot be less than 24s. Official prices in London range from 24s. to 25s. per lb., as to quantity.



**VETIVERT.**—Bourbon on the spot is offered at 50s. to 52s. per lb. Java oil is quoted at 60s.

### Aromatic and Synthetic Chemicals, etc.

The following are prices current for fair wholesale quantities:—

	Per lb.		Per lb.
Acetophenone ..	5/3 to 5/6	Ionone β ..	24/- to 27/-
Amyl salicylate ..	3/-	Iso-eugenol ..	13/6 to 14/6
Anethol ..	5/- to 5/6	Linalol ..	16/- to 18/-
Aubepine ..	8/6 to 9/-	Linalyl acetate ..	19/6 to 21/6
Benzaldehyde (f.f.c.)	2/- to 2/6	Methyl anthranilate	8/9 to 9/3
Benzyl acetate ..	2/- to 2/3	benzoate ..	4/- to 5/-
alcohol ..	1/9 to 2/-	salicylate ..	1/6 to 1/9
benzoate ..	2/3	Musk ambrette ..	22/- to 26/-
Bromstyrol ..	9/9 to 10/-	ketone ..	30/- to 34/-
Cinnamic aldehyde		xylol ..	5/9 to 6/3
(synth.) ..	3/6 to 3/9	Phenyl acetic aldehyde	20/- to 22/-
Citral ..	8/6 to 9/6	Phenyl ethyl alcohol	10/- to 11/6
Citronellol ..	18/- to 20/-	Rhodinol (as to quality)	40/- to 80/-
Coumarin ..	11/3 to 11/9	Rhodinylacetate ..	34/-
Diphenyl oxide ..	3/6	Safrol ..	1/6 to 1/7
Eugenol ..	9/6 to 10/6	Terpineol ..	1/4 to 1/6
Geranyl acetate ..	12/- to 12/6	Thymol ..	11/3 to 12/-
Heliotropine ..	5/- to 5/3	Vanillin ..	21/- to 21/6
Hydroxycitronellal	28/6 to 35/-		
Ionone 100% ..	18/6 to 20/-		
" ..	28/- to 30/-		

### Pharmaceutical Chemicals, etc.

THERE is not much change in the market to record this week. A fair volume of business is being done, with competition very keen.

**ACETANILIDE** is moving in small lots on spot, with dealers' prices slightly easier at about 1s. 6½d. to 1s. 8d. per lb. for B.P. crystals and powder.

**AMIDOPYRIN** is fairly steady, although in little demand, at about 12s. 9d. to 13s. per lb.

**ASPIRIN** continues to find good business, with prices steady at from 2s. 5d. to 2s. 6d. per lb. for good brands.

**BARBITONE** remains dull on spot at about 9s. 9d. to 10s. per lb.

**BENZALDEHYDE** (.03) is quiet but steady at 2s. 6d. per lb. for quantities.

**BENZOIC ACID** (B.P.) is quiet. Continental on the spot is 3s. to 3s. 3d.; British, B.P., 2s. to 2s. 4d. per lb., ex works.

**BENZONAPHTHOL** in fair quantities is now quoted at the easier price of 3s. 3d., and up to 3s. 6d. for small lots, spot.

**BISMUTH SALTS.**—In further reference to the recent advance (*C. & D.*, December 19, 1925, p. 870), it may be pointed out that the price of metal is not likely to go beyond 12s. 6d. per lb. at present, and the next alteration should be in favour of the buyer. In view of the inquiries made by the Ministry of Health in regard to the high price of the salts, it is pointed out that the present rates are quite justified and rise and fall in proportion to that of the metal. There were three reductions and three advances during 1924-25, and on the average of that period, the carbonate salt, taken as an example, was adjusted to within 3d. per lb. on the rises and falls of the metal. Bismuth metal advances or declines suddenly and without notice, so that makers have no possibility of acquiring stocks or covering themselves in advance; in times of scarcity their quantities are rationed and sometimes they are barely covered. It may also be recalled that during 1924, when bismuth was reduced from 10s. to 7s. 6d. and subsequently to 5s. per lb., the makers carried heavy stocks of metal, and the result was unprofitable to them.

**BROMIDES.**—There is nothing to add to our comments of last week, and the market still lacks any serious business: ammonium, 2s. 3d.; potassium, B.P. crystals and granular, 1s. 8½d. to 1s. 9d.; sodium, B.P. crystals and granular, about 1s. 10d. per lb.

**CALCIUM LACTATE** is offered by British makers at 1s. 4d. to 1s. 6d. per lb., ex works; dealers' spot prices are at about 1s. 5d. to 1s. 7d. per lb., according to quantity.

**CHLORAL HYDRATE** is steady, with fair business passing. Duty paid crystals, 3s. 3½d. to 3s. 5d. per lb., according to quantity.

**CITRIC ACID** (B.P. crystals).—There is hardly any life in this market; dealers' quotations for forward delivery are unchanged at 1s. 3½d. to 1s. 3¾d. per lb., less 5 per cent.

**CREOSOTE** (B.P.) is unchanged at from 1s. 10d. to 2s. per lb.

**CREOSOTE CARBONATE** is irregular, with dealers' prices varying from 6s. 2d. to 6s. 9d. per lb.

**CROTON CHLORAL HYDRATE** is rather cheaper at from 8s. 6d. to 8s. 9d. per lb., as to quantity.

**EMETINE SALTS.**—Makers quote the pure alkaloid at 4s. 9d. per gram; hydrobromide, 2s. 8d.; hydrochloride, 2s. 9d. per gram; and periodide, 70s. per oz. Emetine bismuth iodide is 38s. per oz.

**ESERINE SALTS** are higher. Makers quote crystals at 5s. per gram; hydrobromide at 4s. 6d.; hydrochloride, 4s. 6d.; salicylate, 3s. 9d.; and sulphate, 3s. 9d. per gram.

**GUALACOL CARBONATE** is very steady, with nothing quoted under 7s. to 7s. 3d. per lb.

**HEXAMINE** continues to find fair business, with dealers' prices in the region of 2s. 4d. to 2s. 6d. per lb.

**HYDROQUINONE** is well maintained at last week's higher prices of 4s. 5½d. to 4s. 9d. per lb., according to quantity.

**LACTIC ACID** (B.P.) is unchanged: in demijohns at 2s. 3d. per lb., and in bottles at about 2s. 5d. per lb. Technical, 50 per cent. by weight, £42 per ton, net.

**LEPTANDRIN.**—Makers quote 6s. 6d. to 7s. per lb., being somewhat cheaper than recent quotations.

**LYSOL** is quoted at 3s. 3d. net per gallon, in forty-gallon barrels.

**MAGNESIUM SALTS.**—Carbonate, light commercial, is quoted by makers at £31 per ton net, and light commercial magnesium oxide at £67 10s. per ton, less 2½ per cent.

**METHYL SALICYLATE.**—British make is quoted at 1s. 6d. per lb. in carboys; dealers' prices run from 1s. 7d. per lb., in carboys, up to 2s. in bottles.

**METHYL SULPHONAL** does not attract much business, with dealers' prices unchanged at 17s. to 17s. 6d. per lb.

**MILK SUGAR.**—Dealers' prices for B.P. finest Dutch are unchanged: two-cwt. cases, 75s.; five cases, 74s.; ten cases, 73s. per cwt.

**PARAFORMALDEHYDE** is bright, with prices steady at 1s. 11d. to 2s. per lb. for 100 per cent. powder.

**PARALDEHYDE** is unchanged as quoted at 1s. 2d. to 1s. 4d. per lb., according to quantity and packing.

**PHENACETIN** is moving a little better, with prices steady at about 4s. to 4s. 3d. per lb., according to quantity.

**PHENAZONE** is very steady and supported by Continental prices at 6s. 3d. to 6s. 5d. per lb., spot.

**PHENOLPHTHALEIN** continues steady as quoted by dealers at about 4s. 3d. to 4s. 5d. per lb.

**PILOCARPINE SALTS.**—Makers quote the alkaloid at 37s. per oz., being cheaper. Hydrochloride is 12s. 6d., and nitrate 11s. per oz.

**POTASSIUM PERMANGANATE** (B.P.) is rather cheaper for large quantities, with competition very keen: from 7½d. to 7¾d. per lb., in drums.

**POTASSIUM SULPHOGUALACOLATE** is a dull market, with dealers quoting irregularly at from 4s. 9d. to 5s. 6d.

**RESORCIN.**—Prices are quoted at about 3s. 9d. to 4s. per lb., with the market rather quiet for medicinal.

**SALICYLIC ACID** (B.P.).—British makers quote 1s. 3½d. to 1s. 5½d. per lb., ex works, and 10½d. to 11d. per lb. for technical quality. Dealers' prices, 1s. 3¾d. to 1s. 4½d. per lb., according to quantity.

**SALOL** is quiet and prices vary from 3s. 1d. to 3s. 3d. per lb.

**SODIUM BENZOATE** (B.P.).—Business is quite good here, with the price of 1s. 9d. per lb. fairly steady.

**SODIUM DIETHYLBARBITURATE** remains dull, with dealers' prices about 10s. 6d. to 10s. 9d. per lb.

**SODIUM SALICYLATE** (B.P.).—Dealers' prices are unchanged on the week, with fair business passing: crystals, 1s. 11d. to 2s. 1d.; powder, 1s. 10d. to 2s. per lb., according to quantity. British makers' list price: Crystals, 1s. 11d. to 2s. 1d.; powder, 1s. 10d. to 2s. per lb., ex works.

**STRYCHNINE.**—Makers quote the pure alkaloid crystals at 2s. 3d., and powder 2s. 2d. per oz.; hydrochloride is 1s. 11d., and sulphate 1s. 10d. per oz.

**SULPHONAL** is dull, with prices unchanged at about 11s. 9d. per lb.

**TANNIC ACID.**—B.P. *lcriss* is steady at 2s. 8½d. to 2s. 9d. per lb. Business small.

**TARTAR EMETIC.**—Technical quality is quoted at about 11¾d. per lb., spot; market steady.



**TARTARIC ACID** (B.P. crystals).—There is very little inquiry, with dealers quoting at about 11½d. to 11¾d. per lb., less 5 per cent., for forward delivery.

**THEOBROMINE**.—The pure alkaloid is quoted at 11s. 3d. per lb., and the sodium salicylate at 8s. per lb. from dealers.

**THYMOL** is steady, with a good business passing at about 12s. to 13s. per lb.

**VANILLIN** (100 per cent. from cloves).—Competition is keen here and the listed prices of 21s. 6d. to 22s. per lb. might be shaded for good business.

### Industrial Chemicals, etc.

*London, January 13.*

FAIRLY good business with a generally steady tone is reported. One or two items are dearer, while a number of others remain firm on account of shortage of supplies.

**ACETIC ACID** continues in fair demand, with prices very steady: 80 per cent. technical, £38; 80 per cent. pure, £39, in barrels; glacial, 99 to 100 per cent., pharmaceutical, £65 5s., in glass demi-johns; glacial, in barrels, £55 per ton, ex wharf.

**ACETONE** continues very firm, and spot supplies are at a low level: B.G.S., in drums, £80 10s. to £81 per ton.

**ALUM** is steady but quiet at about £9 per ton for lump, in casks.

**AMMONIA** (ANHYDROUS) is moving fairly well, and a good volume of forward booking is being done but prices are being cut very badly. Quoted at 1s. 3d. per lb. for 99.95 per cent., in loaned cylinders, carriage paid.

**AMMONIUM CHLORIDE** is moving in small lots on spot at about £24 per ton, in casks; cheaper for quantities to arrive.

**ARSENIC** is still depressed, although offers have been practically confined to white Cornish at about £14 per ton f.o.r. mines. Demand is slow, and business is presumably possible at a little less.

**BARIUM CHLORIDE** (93 to 100 per cent. prime white crystals) meets with occasional business at about £9 10s. per ton; slightly less for quantities to arrive.

**BARTES** is steady, with fair business being done. Dealers quote at £3 5s. to £5 15s. per ton, c.i.f. U.K. port, according to quantity and quality.

**BLEACHING POWDER** from British makers for home consumers on contract is quoted at £3 10s. per ton, in four-ton lots; dealers' spot prices, £9 5s. per ton; in casks, for 35 to 37 per cent. chlorine.

**COPPER SULPHATE**.—The progress of export business has been rather disappointing, but prices have undergone no alteration. Competition has been very keen, while the nearest quotation is £24 10s. per ton, f.o.b., for casks, less 5 per cent. Quotations vary on either side of that figure, with a few sellers reported in Lancashire down to as low as £24.

**CREAM OF TARTAR** should begin to move in the near future, but, so far, the market has been slow: dealers quote at 76s. to 77s. per cwt., less 2½ per cent.

**EPSOM SALT** is unchanged, with dealers quoting commercial quality, in bags, at about £5 5s. per ton, spot.

**FORMALDEHYDE** is very firm and scarce on spot, at £40 15s. to £41 10s. per ton for 40 per cent. by volume, ex wharf.

**GLAUBER'S SALT**.—Commercial quality is offered at slightly cheaper prices for quantities at about £3 11s. to £3 12s. per ton, in single bags.

**LEAD PRODUCTS**.—Lead acetate, brown, £42; white, £44 per ton, spot; red lead, imported, £44; white lead, dry, £41 15s.; ground in oil, £43 5s. per ton, c.i.f. London. Red lead is much dearer, active and closes firm. White lead is also firm, with inquiry brisk.

**LITHOPONE** has been moving very well, and prices are steady at £20 to £20 10s. per ton for 30 per cent. Continental red seal.

**OXALIC ACID** is, if anything, rather firmer, and there is more interest in the market: quoted at about 3½d. per lb. spot and about 3½d. forward, according to quantity.

**POTASH CAUSTIC**.—Convention prices are unchanged: up to five tons, £29 12s.; five to 15 tons, £27 10s.; over 15 tons, £26 10s., ex wharf, to arrive, for 88 to 92 per cent. solid, in drums; spot, £30.

**POTASSIUM CARBONATE** is steady and in fair demand on spot for small lots: 90 to 92 per cent., £24 5s.; 96 to 98 per cent., £26 per ton, in casks.

**POTASSIUM CHLORATE** is very steady and supplies are not free: to arrive, about 3½d. to 4d. per lb., and a shade less for large quantities.

**POTASSIUM PERMANGANATE**.—Dealers' prices for very large parcels of commercial quality, in drums, are down to 5½d. to 5¾d. per lb.

**POTASSIUM PRUSSATE** is steady and moving well as quoted at about 7¼d. per lb., in casks.

**SAL AMMONIAC** is steady and fairly active: dog-tooth crystals, £31; medium, £30; fine white crystals, £20 per ton, in casks, spot.

**SALTCAKE**.—British makers quote £3 to £3 5s. per ton for home trade, in bulk, delivered.

**SODA CAUSTIC**.—Makers quote solid at from £15 2s. 6d. to £18 per ton on the spot, delivered in four-ton lots, according to strength, and 20s. per ton less for contracts.

**SODIUM ACETATE**.—There is a great shortage here, and a further advance up to £19 10s. to £20 per ton is reported.

**SODIUM BICHROMATE** from home makers for home trade is quoted at 3½d. per lb., with dealers offering at competitive rates.

**SODIUM CHLORATE** is unchanged, with dealers quoting for arrival at 2½d. to 3d. per lb.

**SODIUM HYPOSULPHITE**.—British makers' prices for pure crystals are unchanged at £14 to £15 per ton, according to quantity, delivered to buyer's station: dealers quote pea crystals, photographic, £13 10s. per ton, in one-cwt. kegs; commercial, lump, £9, in casks.

**SODIUM PRUSSATE** is steadier, and dealers are doing a fair forward delivery business at about 4d. to 4½d. per lb.

**SODIUM SULPHIDE** remains flat, with dealers' prices unchanged: 60 to 62 per cent., solid, £11 10s.; broken, £12 10s. per ton, in drums.

**SULPHUR** is steady, with a fair demand. American crude is £5 10s. delivered Manchester; refined is firmly held, with Sicilian flowers quoted at £11 to £11 5s. per ton, and roll at £9 to £9 5s., delivered ex London warehouse. There is a fairly ready outlet for the Italian parcels coming to hand.

**ZINC PRODUCTS**.—There have been sharp fluctuations in the metal, a considerable advance due to the floods in Belgium having been followed by some reaction on the improved American production, although stocks are still low. There has been a fair outlet for English zinc oxide at from about £40 to £48 per ton, according to percentage of purity. Zinc ashes are eagerly bought at upwards of £16 10s. per ton, delivered f.o.r.

**COAL-TAR PRODUCTS, ETC.**—Following on the alterations recorded last week, the general tone in this market is steady, and business has been on a rather better scale. **ANILINE OIL** is fairly active at about 7d. per lb., in drums, carriage paid. **ANILINE SALT** is quoted at about 7d. per lb., carriage paid, packages extra. **BETANAPHTHOL** is steady, with some business being done: 11½d. per lb., carriage paid. **TOLUOL** continues firm and short in supply: pure, 1s. 11d. to 2s. 1d.; 80's, commercial, 1s. 8½d. to 1s. 9d. per gallon. **XYLOL** continues firm, and makers' listed prices are again dearer: pure, 3s. 3d.; commercial, 2s. 3d. per gallon. **CARBOLIC ACID** crystals are rather brighter and prices are inclined to harden up to 4½d. to 4¾d. per lb. f.o.b. in bulk quantities. **CREOSOTE OIL** continues steady with a moderate demand: ex works, 6½d.; f.o.b., 7½d. per gallon in bulk quantities. **CRESYLIC ACID** has been moving well, with 97 to 99 per cent. from 1s. 7d. to 1s. 9d.; dark, 1s. 4d. to 1s. 6d. per gallon. **NAPHTHALENE** is neglected; imported, flakes or balls, £13 17s. 6d.; crystals or powder, £11 per ton, ex wharf. Pure **METHYL ALCOHOL** in one-ton lots is very steady at £47 per ton, in drums, ex wharf; cheaper prices for quantities to arrive. **PYRIDINE** is steadier as quoted last week at 18s. per gallon. **PITCH**.—There is no further change to report; market steady and inquiry fairly good: quoted at 58s. per ton, f.o.b. East Coast.

**RUBBER CHEMICALS**.—The following are makers' prices, most of which have been revised: Antimony sulphide, golden, 6d. to 1s. 5½d. per lb., according to quality; crimson, 1s. 3d. to 1s. 7½d. per lb., according to quality; cadmium sulphide, 2s. 9d. per lb.; carbon bisulphide, £20 to £25 per ton, according to quantity; carbon tetrachloride, £30 to £55 per ton, according to quantity, drums extra; chromium oxide, green, 1s. 2d. per lb.; diphenylguanidine, 3s. 9d. per lb.; lamp black, £35 per ton, barrels free; sulphur precip. B.P., £47 10s. to £50 per ton, according to quantity; thio-carbamide, 2s. 6d. to 2s. 9d. per lb., carriage paid; vermilion, pale or deep, 5s. 3d. per lb.

### Fixed Oils, etc.

**BUSINESS** has remained quiet throughout and a number of products are either easier or are showing weakness as at present quoted. Palm oils, however, close firm. **ACID OILS**.—Market dull but fairly steady: coconut and palm kernel, 40s.; groundnut, 36s. 6d.; soya, 33s. 6d., spot. Castor is dull and easier: pharmaceutical, 51s.; first pressings, 46s.; second pressings, 43s. per cwt. on the spot, in barrels, in not less than one-ton lots. COCONUT is quiet but steady: deodorised, spot, 52s.; Ceylon, 46s. 9d., c.i.f.; Cochin, 59s., c.i.f. COTTON is still quiet and rather easier again: deodorised, 47s.; common edible, 45s.; soap-making, 42s.; crude, 37s., spot. GROUNDNUT is flat and easier;



deodorised, spot, 50s. 6d.; crude Oriental, 46s. 6d., c.i.f. PALM KERNEL is fairly steady: deodorised, 50s. 6d.; crude, 45s., spot. PALM shows a slight decline, but the market at the close was firm: Lagos, 39s. 4½d.; softs, 39s.; mediums, 39s.; hards, 39s. 4½d.; bleached, 42s., spot. RAPE is steady: refined 54s. 6d., and crude 51s. 6d. per cwt., spot. SOYA is quiet and rather easier: deodorised, 49s.; crude, 43s., spot. LINSEED.—There was more activity at the recent lower range of values, and the market rallied to some extent, while home crushers are now in a better position to meet Dutch competition, thanks to the cheaper purchases they made of River Plate linseed. Current rates being reasonable for seed, more activity is looked for in the near future. America has been buying seed more freely from the River Plate, but everything points to a very heavy crop yield there. Market on spot closes at 32s. 9d.; January, 31s. 3d.; February-April, 31s. 6d.; May-August, 31s. 4½d.; September-December, 31s. 7½d.; boiled oil, spot, 54s. 9d. Hull on spot, 32s. 9d.; January-April, 32s. 6d.; May-August, 32s. 3d. per cwt. TURPENTINE has been erratic and uncertain in spite of the recent substantial rise in the American quotations. Resales have been rather in evidence of late. On Tuesday the market was easier, while the American markets reacted from the highest seen last week. Deliveries last week were 1,523 barrels, making a total of 1,913 barrels since January 1, and the stocks were returned at 58,051 barrels, which, with 900 barrels afloat, made the London visible supply 58,951 barrels, compared with 34,931 barrels a year previous. Market on spot closed lower on Wednesday evening at 65s. 3d. per cwt., and February-April at 65s. 9d. WOOD.—Hankow, in barrels, on spot is firmer at 63s. 3d. to 63s. 6d. per cwt., and January-February shipment is 64s. FRENCH OLIVE is offered at 6s. 6d. per gallon net for B.P., in barrels, ex wharf, London.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Conditions are steady throughout, with no change to report. Lubricating oils are reported from America as likely to advance in due course. BENZOL continues firm at last week's higher rates: crude 65s. 1s. 4d.; standard motor, 1s. 9d.; pure, 2s. per gallon, ex works, in tank wagons. FUEL OILS are quiet and unchanged: 950 gravity, £3 17s. 6d.; 890 gravity, £4 7s. 6d. per ton, ex tank. PARAFFIN WAX and SCALE.—Wax is steady at unchanged rates, 5½d. to 5d. per lb., according to melting point, in bags. Scale is rather easier at about 26s. 9d. per cwt., c.i.f. U.K. port. PARAFFIN OILS are unchanged: American standard white, 1s.; water white, 1s. 1d. per gallon, barrels free; Russian prime white kerosene, 6d. to 6½d.; buyers' barrels filled free, 6½d.; barrels free, 10½d. per gallon, ex wharf, London. WHITE OILS are quiet and rather easy as quoted: Special No. 1, £28; No. 1, £26 10s.; No. 2, £24 7s. 6d.; No. 3 half-white, £23; No. 4 half-white, about £15 per ton, drums and barrels free, ex wharf, London. SOLVENT NAPHTHAS are very steady and business good: 90 to 160, 1s. 4½d. to 1s. 5d.; 90 to 190 heavy, 1s. 0½d. to 1s. 1d. per gallon. PETROLEUM JELLIES are unchanged on a quiet market: white to snow white, £55 to £58; amber and yellow, £19 to £22; red vet, £18 17s. 6d.; dark stiff green, about £14 per ton, ex wharf, London, barrels free. LUBRICATING OILS.—There is no special change to report, but rather firmer conditions are anticipated in due course: Pales, £11 to £23 7s. 6d.; reds, £13 5s. to £23 7s. 6d.; dark cylinders, £13 15s. to £34 10s.; filtered cylinders, £21 5s. to £34 per ton, less 2½ per cent., ex wharf, London. SOLUBLE OILS and CUTTING COMPOUNDS, £20 to £28 10s. per ton, according to grade. No. 1 RUSSIAN OIL is steady at £17 15s. per ton, less 2½ per cent., ex wharf.

#### Russian Drug Market

RUSSIAN papers report that there is at present a very brisk demand for ergot, lycopodium and valerian, resulting in a considerable advance in prices. Ergot is fetching 25 to 30 roubles per pood; lycopodium for export is quoted as high as 44 roubles per pood, but for the inland market the price is about 25 roubles. Valerian now fetches 20 to 30 roubles per pood, against only 8 to 10 roubles in 1924. Licorice is scarce, and there are few offers at 5 roubles per pood.

#### West Indian Nutmegs

THE island of Grenada is at the present time enjoying a little boom in the nutmeg industry. Nutmeg cultivation was introduced into Grenada by the late Mr. Frank Gurney at Bolvidere, and it has proved to be the salvation of the island. Nutmegs, which were selling a few years ago at £3 per barrel, are now realising £15, and this, with the improvement in the cocoa situation, has restored the credit of the island. A movement is on foot to secure co-operation from Grenada and the Dutch East Indies in the direction of regulating the output of nutmegs and mace, and a committee has been formed among representative people in the island to consider the matter.

#### Dutch Association of Coca Producers

AN Association has been registered in Holland under the style of "Coca-Producenten Vereeniging te Amsterdam," with the object of promoting the interests of its members in connection with the production, shipping and sale of coca. In order to ensure a regular market for the coca produced by the members, it is proposed to centralise the sale of the product in the hands of a "Coca Bureau," consisting of the chairman and two members of the board, the latter to consist of at least seven persons. The following are proposed as members of the board: De Nederlandsche Handel-Maatschappij; De Nederlandsch-Indische Landbouw Maatschappij; De Koloniale Bank; Tiedeman & Van Kerckern; Heer P. W. Janssen; A. van Hoboken & Co.; De Internationale Crediet- en Handelsvereniging "Rotterdam"; Heer F. H. M. Koch; Heer W. P. Kessler; and De Dordtsche Cultuur Maatschappij. Chairman: De Koloniale Bank; members of the Coca Bureau: Heeren W. P. Kessler and F. H. M. Koch. The association is empowered to appoint a representative in the Dutch East Indies, and is concluded for a period terminating on December 31, 1928.

#### Java Cinchona and Coca Exports

THE following table gives the amounts, in kilos, of cinchona and coca exported from Java during the first nine months of 1924 and 1925 respectively:—

	Cinchona		Coca	
	January-September 1924	1925	January-September 1924	1925
Brit. India .. ..	80,000	112,000	—	—
Great Britain .. ..	434,000	440,000	—	—
Singapore .. ..	29,000	—	—	—
Belgium .. ..	75,000	—	—	—
Germany .. ..	—	—	51,370	13,741
Holland .. ..	3,834,000	3,479,000	567,356	522,165
Italy .. ..	12,000	—	—	—
Japan .. ..	903,000	342,000	240,281	272,303
Other countries .. ..	1,000	15,000	—	—
Total .. ..	5,368,000	4,388,000	859,007	808,209

#### Uganda Camphor

THE leaves and twigs of camphor trees grown experimentally by the Forestry Department, Uganda, have been examined and reported on recently (Bulletin of the Imperial Institute, Vol. XXIII, No. 4, p. 421). On steam distillation a pale, cream-coloured, almost solid volatile oil was obtained, equivalent to a yield of 2.6 per cent. from moisture-free material. On cooling, about 70 per cent. of white solid camphor (m.p. 173° C.) was obtained, and it was estimated that the total yield of camphor may be taken as about 1.8 per cent. This yield compares with the yield of camphor obtained from camphor leaves from other sources. As an experiment in Florida, U.S.A., seemed to show, it is apparently impossible to produce camphor sufficiently cheaply to compete successfully with imported Japanese camphor and the synthetic product. The question, however, is worth considering, as certain essential oils now being produced successfully on a commercial scale are obtained in yields similar to that from camphor leaves, and realise similar market prices.

#### Exchange Rates on London

THE following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	January 6	January 13
Amsterdam	Fl. to £	12.107	12.06½—12.06½	12.07½—12.08
Berlin	M. to £	20.43	20.37—20.38	20.39½—20.40½
Brussels	Fr. to £	25.22½	106.90—107.00	107.00—107.05
Bulgaria	Lev. to £	25.22½	665—685	680—695
Calcutta	Per rup.	24½	18½d.—18½d.	18½d.—18½d.
Constantinople	Pst. to £	110	900—915	905—915
Greece	Dr. to £	25.22½	358—363	354—357
Hong Kong	T. t. s	—	28½d.—29½d.	28½d.—29½d.
Italy	Lire to £	25.22½	120—120½	120.25—120.35
Kobe	Yen	24.58½	21½d.—21½d.	21½d.—21½d.
Lisbon	Escu.	53½d.	2½d.—2½d.	2½d.—2½d.
Madrid	Pes. to £	25.22½	34.32—34.34	34.29—34.32
Montreal	\$ to £	4.85½	4.85½—4.85½	4.86½—4.86½
New York	\$ to £	4.85½	4.85—4.85½	4.85½—4.85½
Oslo	Kr. to £	18.159	23.68—23.91	23.81—23.84
Paris	Fr. to £	25.22½	126½—126½	128½—129½
Singapore	Per dol.	—	28½d.—28½d.	28½d.—28½d.
Switzerland	Fr. to £	25.22½	25.09½—25.10	25.13—25.14
Vienna	Sh. to £	24.02	24.37—34.41	34.46—34.50
Warsaw	Zloty to £	25.22½	37—40	36—buyers





### The Working of the P.A.T.A.

SIR,—Mr. W. C. Birks, whose letter under the above heading appeared in your issue of January 9 (p. 66), would have done better to reply to the letter of "An Apostate" in the *C. & D.* of November 7 last. It seems odd that no one of importance connected with the P.A.T.A. should have thought the letter deserving of attention, and I may remind Mr. Birks that the actual point at issue is the ambiguous wording of a P.A.T.A. agreement form. Will he not let us have his views on this point? For the rest, I would point out that there are chemists who have never sold proprietary articles under face value, and that, in cases in which the putting of an article on the P.A.T.A. has been accompanied by an increase in the price of the article to the retail trade, such retailers' profits must obviously have been reduced. But the wholesaler who still secures the same fixed percentage of profit on the article benefits by that percentage being reckoned on the increased price. Again, when price cutting occurs it is the retailers who lose business, or have to sacrifice profit to meet the competition of the cutters, while the wholesalers continue to make their fixed profit just the same.—I am, etc.,

VIATOR (11/1).

SIR,—Shortly after I read Mr. Birks's letter (*C. & D.*, January 9, p. 66), a customer who for some few years has brought me Insurance prescriptions and films for developing and printing, but has very rarely made a purchase here, asked for the "smallest" quantity of an article in common use. I mentioned the advantage of buying rather more, but was told that "they" have a friend employed at a wholesale druggist's place who gets such things for "them," and was getting a large size. The article asked for is not P.A.T.A., but I state the case because the practice is a common one, and does include P.A.T.A. things. I have found that photographic films (not Kodak) come into my district through such a channel, and last season informed two people in consequence that I could only develop films when a proportion of them were bought from me. The effect of this practice is that we are permitted to do the unprofitable work for these people, but the profitable share is diverted from us by the wholesalers. Do the wholesalers charge their employees the price they pay or the price they would charge us—in other words, is the concession entirely at the retailer's expense, or only largely so? I should like, too, to see that "whole-hearted co-operation of all three sections," but such a lot can be stated to show that it is not yet: will it ever be unless the R.P.U. or some other representative of the retailer is able to state its wishes to the P.A.T.A., instead of taking the crumbs that are left for it? May I state my own case regarding a recent addition to the P.A.T.A.? I sell about two gross of Beecham's pills a year; former cost, £12 12s., sold at face value (£18), profit £5 8s. Present cost (at 11s. 9d., less 2½ per cent.) £13 15s., profit £4 5s.; so that now my profit is likely to be £1 3s. a year less than before these pills were P.A.T.A.; and if this is about the average for retail chemists, then the aggregate total is a colossal sum. If it goes to Beecham's, good enough; if to the wholesalers, why? It seems that I am mulct £1 3s. a year (I can earn back 13s. 9d. of it by giving the additional service of two displays) in order to put a useful sum into the pocket of those who abuses their liberty by cutting the price when they are not restrained.—Yours faithfully,

AN APOSTATE (14/1).

### Loss on Insurance Dispensing

SIR,—"Perplexed" concludes his letter (*C. & D.*, January 9, p. 66) with a wish to hear the other side. After careful consideration, and working out costs and quantities periodically, I have come to the conclusion

that there is no other side. I should rather say that "Perplexed" has stated the case very moderately; for example, although he says that overhead charges have not been allotted in his figures, these have to be paid; and as his panel customers amount to 10 per cent. of the average number, at least 10 per cent. of his rent, rates, lighting, etc., should be charged against the Insurance work—probably another £20 at a reasonable estimate. Then, again, although the dispenser's wages are charged, "Perplexed" does not say whether the dispenser also serves the panel customers; if not, there is the assistant's time to charge up for taking in the scripts and handing out the bottles—no inconsiderable item with some loquacious patients. Then there is a certain amount of loss due to other customers going elsewhere if they see two or three people waiting; I have noticed persons look in at the door and, seeing one or two, walk on; this is probably the most annoying loss of all, although difficult to estimate in cash. If by the other side of the question "Perplexed" means the official side, an official critic would probably point to £4 for aq. dest. and say that it was unnecessary. Another expense is the continuous addition of drugs to stock to meet prescriptions for unusual items; the cost of materials only covers the drugs actually supplied, any left in stock being dead capital. I think this is the first occasion I have seen a pharmacist enclose his actual figures, and the comparison of a few more from different parts of the country would afford valuable evidence. In the present circumstances it would pay "Perplexed" better to give up the panel and invest his £230 (the cost of materials) in War Loan or other security.—Faithfully yours,

THE SAME SIDE (11/1).

### The Contents of the Poison-Cupboard

SIR,—If there are still any pharmacists who console themselves with the idea that, after all, the Dangerous Drugs Act will only mean a certain number of entries in the register, they have only to read the report of the address given by the Chief Inspector to the West Ham Association (*C. & D.*, November 28, p. 764) to see what extreme powers the Government have in this respect. It will be seen that a large part of the address, under headings 2 and 4, was devoted to the responsibilities of the pharmacist under the Pharmacy Acts, and mainly to the storing of poisons. It will be noted that the point was stressed, more than once in the address, that if the pharmacist is not observing the uttermost detail of the Pharmacy Acts, the inspector can report that he is not a fit person to be in the possession of "dangerous" drugs; his authorisation may be withdrawn, his panel contract cancelled, and his business as good as closed. Of the three qualifications of the Pharmacy Act, the Chief Inspector's remarks were devoted to the third qualification, namely, conformity to the Poisons Regulation, especially in regard to storage. Let us look round the pharmacy. Have we any gold-labelled shop-rounds for such things as vin. colchici, tinct. hyoscyami, tinct. camph. co., etc.? They must all come down and go into the poison-cupboard. Have we any line of our own, such as a cough remedy, containing a statutory poison? If so, why is it not in the poison-cupboard? Have we any bottles of tablets such as vegetable laxative? In the poison-cupboard, please. Where are the proprietary lines, Fellows' Syrup, Chlorodyne? The poison-cupboard for these. The next time a gross or two of lysol comes in, remember to put it in the poison-cupboard. Do we pack twopenny boxes of liver pills, each pill containing  $\frac{1}{10}$  gr. of ext. hyoscyami, small packets of oxalic acid, liquid smelling salts, etc.? All in the poison-cupboard, door locked, and key in the pharmacist's pocket. In fact, the only way to be sure of conforming completely would be to convert the back sitting room into the poison-cupboard, keep a large portion of one's stock in it, and remain near the door with the key in one's hand ready for the twopenny customer, who in all probability would get impatient of waiting and go elsewhere.—Yours truly,

SERRATURA (1/12).



### Colds and Medicated Veils

SIR.—Catarrh and colds must be a great source of profit to the doctors, and also, no doubt, something of a disappointment, for the reason that radical cures cannot be many. In this country we who may be addicted to colds are assured of an almost unending series of them, terminating generally in a measure of relief, though cures of the permanent order are extremely rare. Those few are indeed fortunate who, with a comfortable balance at the bank, are able to migrate to other climes. The suggestion, by Sir James Dundas Grant, of medicated veils does not, I fear, promise much relief beyond the fact that—generally adopted—anyone wearing such in public would be promptly boycotted. As a fact, however, a medicated veil might certainly be as effective as the old-time respirator, and might conceivably be much better. Probably the class of respirator to which we were accustomed forty or fifty years ago had no particular value. I have not sold one for a generation, nor have I seen any person wearing one for a very long time. For colds and catarrhs one wants to create an artificial and remedial atmosphere for the duration of the attack; and if this is to have any chance, nose breathing is essential. Some years ago there was advertised a kind of nostril distender—something in celluloid I believe, worn usually at night. We get the same effect if we grasp the nostrils between finger and thumb and draw downwards; air passes more freely. Respirators are practically out of date, and some were far from cleanly. Those of the shape of Burney Yeo's can be comfortably worn (in the house at least and through the night), and, suitably medicated, must be of some benefit. As regards sprays, inhalations, etc., all are more or less useful, the measure of efficacy being the ability to reach the affected parts. Spraying apparatus is, in my experience, generally rather inefficient, especially in the hands of the patient himself. As a preliminary, cleansing the nose by lavage as far as can be done is recommended. To the smoker it may be a relief to know that a medicated cigarette may be enjoyed—and the aroma (with one brand at least) does not appear to attract attention, and may therefore be considered unobjectionable to one's associates. I do not think we shall see many catarrh and cold sufferers wearing veils, but there might be use found for light and neatly-made handkerchiefs, medicated and perfumed, to breathe through.—Yours, etc.,

J. P. N. (16/11).

### "Last Lappers"

SIR.—During the week before Christmas the Early Closing Order was suspended to provide time to meet the usual shopping rush, and, going home each night, one thing was very noticeable—the "last lappers" in each thoroughfare were chemists. All the other shops were closed—hardly a soul in the street. Some nights it was pouring with rain, and after ten or eleven one sees a window full of light, a bright oasis in a desert of darkness, and it is a chemist's shop every time. No customers, naturally; and still the man who is eternally grumbling at his long hours of business wastes his light in making them longer than ever so soon as compulsion is relaxed. It shows what would happen if the Early Closing Order was done away with. Truly a curious race of men are pharmacists; it would almost seem as if the study of incompatibilities had inoculated them with a similar sort of complaint, which renders them unable to preserve a proper balance in their relations with the rest of the world. Years ago, as an assistant, I well remember two local chemists, one on each side of the street nearly facing each other; as the night drew on they would gradually turn out one light at a time, until about midnight there was only one light left in each shop, and each of the two professional brethren would be peering over the top of his window enclosure to see if the other man had given in and turned out the last lamp.—Faithfully yours,

INDEPENDENCE (29/12).

### The Pharmacist and the Prescriber

SIR.—The point that "Xrayser III" makes with regard to antagonising prescribers (*C. & D.*, January 2, p. 17) may in actual practice involve a serious consideration. As we are all unfortunately aware, there are

some medical practitioners who consider any referring back of a script as a piece of impertinence on the part of a chemist, no matter what the mistake may be, and for such a man (to use a colloquial term) to get his knife into one may mean untold damage to one's business and reputation. For example, if he visits a patient and sees the chemist's name on the bottle of medicine he may pick it up, smell it, and remark that it does not seem to have quite the right colour or taste, and had better be made up elsewhere; if he sends the chemist prescriptions he may prescribe a drachm or so of a proprietary which the dispenser is obliged to obtain in  $\frac{1}{2}$ -lb. or 1-lb. bottles, and will never prescribe it twice. Such an attitude as this is impossible to contest; although one knows it is going on, it is impracticable to obtain sufficient evidence to justify taking action. I am not advising that pharmacists should accept incomplete scripts, but I am pointing out the dilemma they may be in in certain cases, and the necessity for some penalty on the prescriber as well as the dispenser.—Faithfully yours,

ONCE BITTEN (4/1).

### Subscribers' Symposium

For interchange of opinion among "*C. & D.*" readers and brief notes on business and practical topics

#### "Drops Off the Shelf"

*Velo* (9/1) writes: Can you let me know the formula for a preparation known as "Drops Off the Shelf"? It is sold locally in Stourbridge district, South Staffs, and contains *tr. opii*. It retails about 8d. per oz.

#### Dispensing Doctors' Slip Labels

It was interesting to read in the *C. & D. Commercial Compendium* the labelling requirements relating to dispensing doctors. One often sees doctors' bottles with stock slip labels on, no name or address; and it is quite obvious that the requirements are ignored—quite possibly, also, unknown. Is there any official whose business it is to inquire into breaches of these regulations? It is time that equity was observed in such cases.—*Equality* (4/1).

#### Chemists' Goods in Other Traders' Windows

In comment on "S. H.'s" complaint (*C. & D.*, January 2, p. 33). I suggest that manufacturers are not interested in pharmacists except when they require a new line boomed; they know from experience that they can always find chemists short-sighted enough to grab five-shillings' worth of goods for a window display, and then, the line being fairly under way, the proprietors are anxious to supply any class of trader they can get to sell their goods. It must be remembered that a chemist's turnover is small compared to that of some of these dealers, so naturally the big firms follow the money. If a "beggar my neighbour" plan of business became general, we should all be selling somebody else's goods instead of our own, at figures approaching cost price.—*Competitor* (9/1).

#### Changed Times

In sending you my cheque for another year's production from your ever-flowing mill, I cannot help picturing the very great alteration that has taken place in the world since first I started to read the *C. & D.* Every week, practically without fail, for more than a generation—aye! a good bit more—I have gone through it from cover to cover with much interest. In my prentice days I remember sitting on the back shop table during my spell of evening Sunday duty with my legs dangling down, reading the *C. & D.*, and listening through the phone—the National Telephone Co.—to a sermon, or rather the singing, as I preferred that part of the service, as business was practically nil—else I don't for a moment suppose I would have been left alone in the shop. To-day I can improve on that, for I can sit at my ain fireside, enjoy my smoke, and listen to a service on the Sunday evenings from St. Martin's, London, or practically any wireless station in these islands. Pharmacy has also progressed; it could not help itself.—*A. C.* (5/11).



## Legal Queries

*D. M. A.* (9/1).—You have only to keep an account of the use of rectified spirit upon which rebate of duty is to be claimed.

*J. S.* (9/1).—The label of the ointment to which you refer must state, "Contains hydrarg. oxid. rubr. 1.14 per cent.—Poison."

*X. Y. Z.* (4/1).—The cough cure label should state: "Contains tr. eamph. co. B.P. 1/4—Poison." Tr. chlorof. co. B.P. '85 is not a scheduled poison.

*F. R.* (2/1).—The veterinary preparation containing copper salts and sulphuric acid is not subject to any restrictions under the Pharmacy Acts or Labelling of Poisons Order.

*J. B.* (6/1).—The label you suggest for the dog pills is correct. The method you adopt of softening the effect of the word "poison" is a question of policy; it does not affect the law of the subject.

*B. P. & C.* (9/1).—A hair preparation containing less than 3 per cent. of carbolic acid is not a scheduled poison or a poisonous substance, since it is not sold as carbolic acid or carbolic disinfectant.

*J. J. W.* (4/1).—The statement of percentage of poisonous alkaloids in preparations is in order with the word "poison," but preparations in the B.P. or B.P.C. need only the addition of those letters and the word "poison."

*E. L.* (5/1).—From the wording of the Labelling of Poisons Order it was thought to apply to "poisonous substances" included in Section 5 (see *C. & D. Diary*, p. 267), but now the Pharmaceutical Society state that it does not.

*G. C. S.* (8/1).—A licence is required for a person to hold "dangerous" drugs and manufacture preparations from them for the purpose of selling wholesale, i.e., selling to retail vendors for the purpose of re-sale. You require a licence.

*F. C. L.* (9/1).—Strong ammonia liquid smelling salts are held by the Pharmaceutical Society not to be included in the Labelling of Poisons Order, but they are "poisonous substances" if the total percentage of ammonia is over five.

*J. W. M. B.* (4/1).—The syr. pruni virg. is probably sufficiently diluted to bring the amount of the poison contained in the cough elixir within the principle of *de minimis*, and need not therefore be labelled with the proportion of the poison.

*C. C. P.* (6/1).—The tonic mixtures, the formulas of which you send, should be labelled: (1) "Contains syr. ferr. phosph. c. quin. et strych. B.P. and syr. hypophos. co. B.P.C. each 16.6 per cent.—Poison." (2) "Contains liq. strych. hydrochl. B.P. 0.78 per cent.—Poison."

*H. T.* (5/1).—The labels of the articles, the formulas for which you send, should be: (a) The amount of pulv. opii in each pill, the quantity worked out from the weighed mass. (b) "Contains tr. opii B.P. 1/53—Poison." (c) "Contains syr. papav. alb. B.P. '85 7½ per cent.—Poison."

*D. W.* (6/1).—The qualified superintendent of a limited company carrying on the business of a chemist and druggist is required to *bona-fide* manage it. It is a question whether he can do this if engaged elsewhere on the premises testing sight, but, on the other hand, it might be argued that this duty is part of the business of a chemist and druggist.

*K. A.* (12/1).—Any certificate covering similar examinations to those mentioned in the syllabus of the Qualifying examination should be sent to the secretary of the Pharmaceutical Society, 17 Bloomsbury Square, London, W.C., with two guineas, as although the Registrar is not authorised to accept certificates apart from those on the list, exceptions are submitted to the Council and considered.

*Lysol* (7/1).—The pills should be labelled: "Each pill contains ext. hyosey. B.P. 1 grain—Poison." Ext. hyosey. is a scheduled poison, although in minute doses the custom of the trade has not been to declare the article containing it as poison. In the proportion contained in your formula it is necessary to declare it.

*J. C.* (6/1).—The labels for the articles you refer to should read: "Pil. coloc. et hyosey. B.P.—Poison." The "Triple Syrup" label should give the proportion of syr. ferri phosph. c. quin. et strych. B.P. and syr. hypophos. co. B.P.C., with the word "Poison." Lin. A.B.C.: if B.P.C., add these letters and the word "Poison."

*J. W. B.* (4/1).—The active alkaloid of areca nut is poisonous; and any preparation or admixture containing it is a poison in Schedule 2. If areca nut is considered a preparation then it is technically a poison. It has not been customary in the trade to regard areca powder as sold in worm powders as requiring a poison label. The fluid extract, however, could not escape proper labelling, and any preparation containing it would similarly be included.

*J. B.* (5/1).—(1) A person who has served an indentured apprenticeship is permitted to sell "known, admitted and approved" remedies unstamped. An unqualified person cannot legally sell scheduled poisons, whether in dispensed medicine or in proprietary articles. (2) We have not published recently an extended list of proprietary articles containing scheduled poisons. (3) A person trading under any other name than his true Christian and surname must register under the Business Names Registration Act.

*A. A.* (8/1).—(1) The sale of agricultural and horticultural poisons is in accordance with the provisions of the Arsenic Act, 1851, the Pharmacy Act, 1868, and the Poisons and Pharmacy Act, 1908, whether sold by a chemist or a licensed person. The sale is also governed by the Labelling of Poisons Order. (2) Homologues of carbolic acid containing over 3 per cent., when used for agricultural and horticultural purposes, are taken out of Part 2 of the Poisons Schedule, but are "poisonous substances," hence the Labelling of Poisons Order does not apply.

*W. T. C.* (5/1).—(1) The proportion of poison in a preparation must be stated on the label; this you do not appear to have done in the case of the cough mixture ingredients. The word "poison" must also be given with the reference to the B.P., in the case of a preparation contained in that work. (2) Cantharides and jaborandi in a hair wash must be declared, and such a preparation cannot legally be sold by unqualified persons unless the proportion of the poison is so small that it comes within the legal principle of *de minimis non curat lex*.

*D. & S.* (30/12).—The description of carbolic acid in the Poisons Schedule states: "Except preparations used for sheepwash or any other purpose in connection with agriculture or horticulture"; consequently a preparation made and sold for this sole purpose is not within the Labelling of Poisons Order. The Part I Schedule poisons you mention as requiring signature, etc., are definitely covered in the specifications affecting them. Nux vomica powder, 1 part in 160, is outside Part I, but comes within Part II; it does not require a signature, but is to be labelled "Nux vomica 1/160—Poison."

*J. A. G.* (8/1).—The Dangerous Drugs Act Regulations do not in all cases require a chemist to show how a "dangerous" drug is used. It is correct to enter the receipt of the drug in the Register, but so long as the article is used for preparations outside the Regulations nothing would be shown as to how it is used. If liq. opii sed. is made from ext. opii it requires no entry of the manufacture, but if the liquor is dispensed as such, i.e., comes within the Regulations, and would be entered as dispensed. The two sides, receipts and distribution, of the Dangerous Drugs register cannot in the ordinary course of a retail business balance, and were not intended to do so.

*J. A. G.* (7/1).—There is no objection to writing "tinct." for "tr." in expressing the name of the poison to be declared under the Labelling of Poisons Order. The addition of another letter or two to the abbreviations used in the B.P. or B.P.C. is not ruled out. The guiding principle in any name is that it is made clear in the declaration of the poison. Thus "bel." could not replace "bellad." because the former abbreviation is ambiguous. It should be remembered also that the Pharmacy Acts, unlike the Dangerous Drugs Acts, are administered in a reasonable spirit.

*W. L. P.* (7/1).—(1) Pil. hydrarg. and ext. coloc. co. are not scheduled poisons. Ext. hyoscy. is a poison, and though hitherto it has not been usual to declare a pill containing it "poison," this is probably because it was the "article" which has to be labelled "poison," and no one could say that a pill containing a medicinal dose of ext. hyoscy. was a poison. Now, however, a preparation containing a poison—in this case ext. hyoscy.—must give the proportion of the poison on the label. In this sense there is a change in the law, in spite of the dictum that "what was not a poison before is not a poison now." The label should be: "Contains ext. hyoscy. B.P.  $x$  in each—Poison." (2) The cough mixture should be labelled with the proportion of tr. camph. co. B.P. it contains. Glucosides, other than digitalin and strophanthin, are not included in the Poisons Schedules.

*R. R.* (33/12).—A man died a few months ago, leaving a farm "to my two nephews, A and B, son of the late C." A is sixty years of age and in poor health; B is seventeen. A is told that the farm is not left to B and himself in equal portions; but that on the death of either of them the whole farm will go to the other. If that is so, what can A do, as he is naturally anxious to leave his portion to his family. [It appears that the effect of the devise is to make A and B "joint tenants" of the farm; that is to say, their interests in it are identical, and upon the death of one the survivor will take the whole property. A cannot dispose of his share by will; but he can do so during his lifetime by assignment; for example, to his wife or a younger member of his family. Alternatively, when B comes of age, there can be a partition of the farm under which each will take half of the land or of the proceeds of sale. We strongly advise A to consult a solicitor.]

*G. H. C.* (5/1).—(1) You should read carefully the paragraph in black type at the head of the Poisons Card No. 2A. "Preparations" and "admixtures" are not one and the same thing. It is a question of interpretation, and failing an actual decision in the courts the best legal rendering has been followed. The Northern Ireland Schedules, with slight exceptions, being based on the British Poisons Schedules, the same rendering has been adopted. The specification for zinc chloride seems clear, and the word "unless" does not appear. (2) The question of reciprocity of qualifications between Ireland and Great Britain has not so far been raised, but was referred to before the passing of the Northern Ireland Act; whether anything will develop it is as yet too soon to express an opinion. To comply with the examination regulations in force in Great Britain, it would be necessary to find out how much concession the British Society would make to a pharmaceutical chemist qualified in Ireland. Until a definite request is made, and an equally definite answer given, it is impossible to say what is the shortest time in which the chemist and druggist qualification can be taken.

### C. & D. Appreciations

I could better do without dinner on Friday than the *C. & D.*—*J. N.* (22/12).

I am sure that all *C. & D.* subscribers much appreciate the *Diary* for 1926.—*J. K. C.* (31/12).

Although I am partially retiring from business, I cannot do without the *C. & D.*—*A. Y.* (31/12).

I have much pleasure in renewing subscription. I find the *C. & D.* increasingly useful.—*J. M.* (22/12).

### Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*A. L. M.* (36/10).—SCURF AND ITCH OINTMENT.—This ointment contains salicylic acid (about 3 per cent.) and sulphur (about 5 per cent.) as its medicinal agents. The base appears to consist of lard as the chief ingredient, probably with a little olive oil.

*H. S.* (31/12).—LIQ. MORPH. ACET. P.L. 1851.—

Morphine acetate ...	...	...	5iv.
Acetic acid ...	...	...	15m.
Distilled water ...	...	...	20 oz.
Proof spirit ...	...	...	10 oz.

Mix and dissolve. Dose:  $\text{m} \times \text{v} - \text{m} \times \text{v}$ .

*W. S.* (31/12).—TISSUE SALTS used in the bio-chemical treatment of diseases are prepared by the homeopathic method by triturating the medicament for hours with sugar of milk. The third decimal, or 3x potency, is the homeopathic way of expressing the dilution.

*J. H.* (31/12).—ITCHY HEEL IN HORSES.—The following is a formula for grease and itchy heel in horses:—

Cupri sulph.	...	...	...
Zinci sulph.	...	...	aa. 5iv.
Theriac.	...	...	3ij.
Aq.	...	...	ad Oj.

Sig.: Clean the parts well and rub in the lotion twice or three times daily.

*H. W.* (1/1).—APPRENTICESHIP.—(1) The usual term of apprenticeship in England is three years; in Scotland it is four years. (2) The premium depends largely on the nature of the business. Many chemists do not ask for one, but others ask from £25 to £50. (3) The weekly remuneration usually given is 1st year, 10s.; second, 15s.; third, 20s.; while others start at 15s. and progress by similar steps. (4) An apprentice should have, if attending college during apprenticeship for Part I of the Qualifying examination, a minimum of two attendances weekly.

*A. C.* (3/1).—INFLUENZA MIXTURE, "P. F. 9."—

Vin. ipecac.	...	...	...	5j.
Liq. amm. acet.	...	...	...	...
Spt. aether nit.	...	...	aa.	3ij.
Oxy. scillae	...	...	...	5iv.
Chlorodyni	...	...	...	$\text{m} \times \text{v}$ .
Aq.	...	...	ad	3vij.

*T. R.* (8/1).—ELIXIR SIMPLEX:—

Ol. aurant. amar.	...	...	...	5ss.
Spt. rect.	...	...	...	3vj.
Aq. cinnam.	...	...	...	3vij.
Syrupi	...	...	...	3vij.

Filter bright.

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," January 15, 1876

### Sale of Alcohol for Scientific Purposes

Another Inland Revenue query was lately submitted to the Board by Mr. Randall, of Wareham. He asked if it was legal to supply spirits of wine to surgeons for preparing pharmaceutical articles, and likewise to professional men for scientific purposes. To this the reply returned was "that a licence is by law required by every person who sells spirits."

In the event, however, of a small quantity being required for strictly medical or scientific purposes, of highly rectified spirit such as could not ordinarily be obtained from the licensed trader, the Board would not in such a case interfere with the supply of a few ounces by a chemist not licensed for the sale of spirits—but the application for such spirit, and the sale of it, must be strictly limited to such purpose, and strict proof to that effect would be required in the event of any complaint being made of a violation of the statute.





[Commenced C. & D., July 5, 1924]

**Dragon's Blood.**—This resin is largely used in the preparation of varnishes and lacquers to give them a red colour. The ancient product known under this name, mentioned by Dioscorides as a costly pigment brought from Africa and called cinnabari (κινναβάρη), was certainly the resin now called drop dragon's blood, which still comes from Socotra via Zanzibar and Bombay, and is produced by *Dracaena Ombet*, Kotschy, nat. ord. *Liliacea*, and possibly also by *D. schizantha*, Baker, from Somaliland. It occurs in small tears and fragments rarely exceeding an inch in length, with a clear, glassy fracture, and in thin pieces transparent and of a splendid ruby colour. When heated on the point of a knife it does not give off the irritating fumes of benzoic acid. To obtain the drop dragon's blood, called "eda" by the natives, a piece of bark about four inches square is removed and the cavity becomes filled in about one month; the collection takes place in March. Some goes via Aden and Muscat to Bombay, where it is used by goldsmiths. An interesting point in connection with the Socotrine dragon's blood is that it is believed to have been one of the resins used in varnishing the valuable violins of the more important old manufacturers. The modern dragon's blood occurs in commerce in several different forms and is derived from several species of *Colamus* or *Demonorops*, N.O. *Palmacea*. The principal species used in preparing it are *Demonorops propinquus*, Becc., found in Penang and Sumatra, and *D. ruber*, Mart., growing in Java; *D. Mottleyi*, Becc., and *D. didymophyllus*, in Malaya. Other species, e.g., *D. micranthus*, Becc., occurring in Malaya, and *D. sparsiflorus*, Becc., in Borneo and Labuan; *D. Mattiensiensis* and *D. draconcellus*, Becc., natives of Borneo, are known to yield red resins; but whether these are also collected is not certain. The fruits of the different species vary in size from that of a marble downwards. The resin is secreted between the scales of the fruits, and to obtain it the dried ripe fruits are shaken in a basket, and the powder mixed with water and pressed into moulds, and then melted by heat, and, when soft, moulded into sticks or cakes of various sizes, and wrapped in leaves of a species of *Licuala*. Some of this "reed" dragon's blood occurs in sticks 13 to 14 in. long and  $\frac{3}{4}$  to 1 in. in diameter, and weighing about 5 oz. Others are 3 or 7 in. long and 1 in. in width. The smallest fruits give the most dragon's blood. The largest sticks are known as *Djernang Koekoc*, and the smallest—in very small quantities only, as the tree is rare and the blood high in price—is known as *Djernang Mundai*; a third variety is in flat cakes, 3 in. long by 1 in. broad, is known as *Djernang Beroewang*. The purity and brightness of colour are indicated by the tint of the streak left when rubbed on paper or card. Some of the best "reed" dragon's blood comes from Pontianak. "Lump" and "saucer" dragon's blood is produced by boiling the pounded fruits in water and making the resin that floats into a mass, frequently increased by mixing with the milky juice of *Garcinia parvifolia*, Miq., N.O. *Guttiferae*, to increase the weight. Ordinary lump dragon's blood frequently contains 40 or more per cent. of insoluble matter, principally scales and debris of the fruits. A purer form of lump dragon's blood is obtained by reboiling, and separating the scales and dirt by straining. The resin melts at 248° F., with evolution of benzoic acid, which distinguishes it from the "drop" dragon's blood that comes from East Africa, via Zanzibar. Dragon's blood is soluble in alcohol, benzol, the oxygenated essential

oils, caustic soda, and glacial acetic acid, but sparingly only in oil of turpentine.—It is largely exported into China, India and Europe from Singapore and Batavia, and Bandjermassing in Java. Mexican dragon's blood, a resin used as a substitute for dragon's blood in Mexico, is derived from *Croton Draco*, N.O. *Euphorbiaceae*. The origin of the name, dragon's blood, is not clear, but it seems probably to have arisen in China, where the largest proportion of the drug is said to be exported, and where the name "dragon" is so widely used, and would probably be applied to a red substance of unknown origin.

**Drawback (Export).**—On the exportation or shipment as stores of an article upon which duty has been paid, and in some cases on the deposit in a duty-free warehouse for exportation or shipment as stores of such an article, repayment is made of the duty, and to this the name drawback is given. For the purposes of drawback removal to the Isle of Man is regarded as exportation. The payment of drawback is a function of the Commissioners of Customs and Excise. Customs drawbacks are allowed on *ad valorem* goods, such as clocks, motor-cars, and musical instruments, on beer, coffee and coffee mixtures, dried fruit contained in composite goods, saccharin, Key Industry goods, silk, sugar, including glucose and molasses, refined in bond, tea, and imported tobacco manufactured in the United Kingdom, including snuff. Excise drawbacks are allowed on beer, chicory and chicory mixed with coffee, saccharin, artificial silk, spirits, sugar, including glucose and molasses, and home-grown tobacco, manufactured. As a rule, the drawback is the amount of duty paid on the article; but the Excise drawback on home-grown tobacco is at the rate of five-sixths of the full Customs rate, and in the case of imported spirits used in the manufacture of compounds, the drawback, instead of being the Customs duty paid on import, is calculated as if the duty on the spirits had been paid at the Excise rate. In the case of beer exported or deposited in warehouse for exportation, the rate of drawback is £5 0s. 3d. per standard barrel, less a rebate of £1 per bulk barrel, or, in the case of imported beer, less any rebate allowed on importation. And for both home-made and imported beer there is an additional drawback allowed on exportation of the duty paid on any hops, glucose or sugar used in the brewing of the beer. Anyone may export beer on drawback, but beer can only be sent as ship's stores on drawback by a person duly licensed to sell beer. To obtain drawback on spirits or spirit mixtures, such as liqueurs, tinctures, medicinal spirits, flavouring essences and perfumed spirits, and spirits of wine exported or shipped as stores direct or deposited in warehouse, to be so exported or shipped, a rectifier or compounder's licence must be held. All goods on which drawback is claimed must be of merchantable quality and worth at least the drawback claimed on them. Anyone desirous of exporting goods on drawback is required to give six hours' notice of his intention to do so to the officer in charge at the port of shipment, and must enter into bond for the due shipment and landing of the goods. A shipping notice has to be made out on a prescribed form, describing accurately the goods to be shipped and stating their value, and no goods other than those so described may be shipped under the notice. The goods are required to be produced for examination to the proper officer at the port before being shipped, and after shipping they may not be brought on shore, nor are the packages allowed to be opened or the marks on them altered. But provision is made for the payment of drawback where goods shipped for exportation have been destroyed by accident on board; and if goods are damaged on board by accident they may be relanded with the permission of the Commissioners, and on being abandoned drawback is payable on them. Drawback is paid upon a debenture certifying the entry outwards of the vessel carrying the goods. This debenture, which does not require to be stamped, is made out in the name of the real owner of the goods or his duly authorised agent, who must sign a declaration on it that the goods mentioned have been actually exported and have not been relanded, and are not intended to be relanded in any



## The C.&D. Commercial Compendium

part of the United Kingdom, and that the person named in the debenture as claiming was at the time of entry and shipping and continued to be entitled to be paid the drawback. No payment of drawback is to be made after the expiration of two years from the date of shipping. No person may export goods entitled to drawback on exportation, nor enter such goods for exportation in any ship of less than 40 tons burden.

**Drosera.**—The sundew, as it is popularly called, is a native of cool climates, growing in wet places on sandy or peaty heaths, in muddy places, or on tufts of *Sphagnum* where the tips are always moist, flowering in July but almost disappearing in winter. The species used in medicine is generally the round-leaved sundew, *Drosera rotundifolia*, Linn., but there is another species with narrowly oblong spatulate leaves and longer leaf-stalks, named *D. longifolia*, Linn., which is said to possess the same properties; and also a third species, *D. intermedia*, which has leaves like *D. longifolia*, but smaller, with shorter leaf stalks. *D. rotundifolia* is by far the commonest, and is the species used medicinally. For several centuries *Drosera rotundifolia* has had a popular reputation in Europe as a remedy in chronic bronchitis and asthma and whooping cough. Its chief use at the present time appears to be as a remedy in spasmodic cough, coming on suddenly with retching or vomiting and gastric irritation. The characteristic symptoms of the plant produced in healthy persons are tickling of the larynx with vomiting of food, according to homeopathic authorities. It has been neglected by allopaths as a rule, but Dr. Murrell, in the "Lancet," April 17, 1860, stated that five-drop doses of a one-ten tincture aggravated the cough in a case which he treated, while half-drop doses palliated and then arrested the cough. Yet the plant is included in very few works on materia medica, although its continued use in homeopathy, and its remarkable powers of digesting insects, due to an enzyme converting albumen into peptone, indicate that it is deserving of careful physiological and chemical investigation. Lugan showed that it yields to chloroform a greenish-brown, odorous and very acid resin. In Martindale's "Extra Pharmacopœia" a formula is given for tincture (one in ten of proof spirit), taken in doses of one to ten minims. In Potter's "Cyclopædia of Botanical Drugs" a formula for an infusion of  $\frac{1}{2}$  oz. to a pint of boiling water is given, which can be taken in tablespoonful doses when required. The homeopathic tincture is made with equal parts of alcohol, and the juice of the fresh plant collected when it commences to flower in July. The plant loses on drying 80 to 85 per cent. of moisture. It is therefore obvious that the same effects cannot be expected from the different tinctures of the dried and fresh plant. Vigier found that the dried plant yielded 25 per cent. of extract with 60 per cent. alcohol. It is a very difficult plant to collect, as it withers rapidly, and is best collected in a tin with pieces of wet sphagnum to keep it fresh. An illustration of *D. rotundifolia* is given in Maisch's "Materia Medica" and the "National Dispensatory," and of *D. longifolia* as well, in Planchon and Collin, "Drogues Simples" (tom. 2., p. 371, fig. 935-938). *Drosera rotundifolia* contains an oxynaphthoquinone, a yellowish substance volatile in steam, a substance giving a violet coloration with chloroform, and a sweet-tasting aromatic body which possibly is the one that attracts insects. (See "Archiv. der Pharm.," 1923, 261, 217.)

**Drowning Persons, to Restore.**—The most easily applied method is that recommended by Schafer. The patient is placed face downwards, with a rolled-up coat under the lower part of the chest, so that the head is lower than the body; this posture insures water running out of the air passages (it is advisable to open the mouth and pull the tongue forward). Then, standing or kneeling on one side of the patient, pressure is applied to the lower ribs on each side by the hands of the operator, at the rate of about fifteen times to the minute, allowing the

ribs to come outwards between each act of pressure. Sylvester's method consists in first emptying the air passages by turning the patient on his face, then placing him on his back, pulling the tongue forward, grasping the arms above the elbows and pulling them back well above the patient's head, next throwing them forward to the side of the patient's chest, and pressing them to the side of the chest, repeating every four seconds. It is most important that the patient be kept warm by all means at disposal.

**Drug Auctions.**—See Auctions, Drug.

**Drug Brokers.**—Up to 1886, drug and other brokers in the City of London were subjected to control by the City authorities, who, among other vexatious rules and regulations, required from each applicant a bond in the sum of £1,000 to ensure due performance of his duties. The personal bond was abolished in 1870 after protracted agitation, but it was not until 1886 that all restrictions were swept away. Drug brokers in London are members of the General Produce Brokers' Association and subject to their rules and regulations. They are not supposed to buy and sell on their own account, but charge a commission to both buyer and seller, varying from one-half to one and a-half per cent. The name of their principals is rarely disclosed to the buyer or seller, and in many contracts the solvency of the buyer and seller is guaranteed. The following is a representative contract for goods sold in public sale:—

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**Drug Habit.**—With the exception of opium smoking and the use of Indian hemp, both of which are essentially Eastern practices, drug addiction, that is to say, the illegitimate use of certain narcotics, such as morphine, heroin, cocaine, etc., is a product of modern civilisation. When indulged in to allay pain, or to combat exhaustion and fatigue, without proper medical supervision, the victim rapidly becomes a slave to the drug of his choice, with disastrous moral as well as physical results. The object of the Hague Convention of 1912, and of the Second Opium Conference held in 1925 (C. & D., I, 1925, p. 389), is to suppress the abuse of these substances by exercising a strict control, by international agreement, over the manufacture, importation, exportation, distribution and sale of opium, morphine, diacetylmorphine (heroin), coca, cocaine, ecgonine, and Indian hemp, termed "dangerous drugs," and usually classed as narcotics or stupeficients. In this country the fundamental features of these international agreements to suppress the illegitimate use of habit-forming substances are embodied in the Dangerous Drugs Acts, 1920-25.



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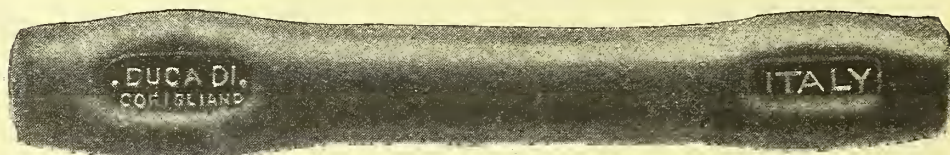
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Not only have we received testimony from the medical profession and the general public, but also from members of your own profession.

The following are extracts from two well-known Chemists. We have not published the names, as a matter of etiquette, but the letters are open to inspection at any time:—

"The man to whom we have been supplying 'Beltona' has been suffering with Rheumatism for years and was unable to move. He has been able to walk about since using 'Beltona.' I think I could get one of the finest testimonials you have ever had."

"I have used your preparation for Arthritis in the hand, and have had splendid results. Previous to using it I had difficulty at times to write, but since using 'Beltona' I am able to do so. It really is a splendid preparation."

The following testimony is from Mr. Howard Wyndham, the well-known London Theatre Manager:—

"I had spent considerable sums on various treatments, but failed to derive any appreciable benefit, and had practically resigned myself to what I began to consider the inevitable."

"For years I had been unable to raise my right hand higher than my chin, and, except in very limited movements of the arm, suffered pain. By a lucky accident, I was recommended a trial of 'Beltona,' with the astounding result that within eight or ten days I found the joint was yielding to treatment, and within two months the stiffness and pain had entirely disappeared. I am only doing my duty to others similarly affected by publishing these facts, and should you care to use this letter, I hope it will direct the notice of sufferers to what I consider a very remarkable discovery."

Why not send for Literature and at the same time order 1/- doz. or 1/- doz. bottles. It will pay you handsomely. Also send for particulars of bonus for Window Display.

#### LABELLING OF POISONS ORDER.

New labels are necessary for "Beltona" to meet the requirements of this Order. Will chemists holding stocks please send to us for labels.

"Beltona" retails at 3/- and 5/- per bottle. 1/2-gallon bottles £1. Price 27/- per doz., 45/- per doz. and 192/- per doz. Can be obtained direct from BELTONA, LTD., 71 High St., Hoddesdon, Herts., or through all the principal wholesalers.

## Licoricine

ACTS LIKE  
MAGIC

### for Coughs, Colds, &c.

is the best line of its kind for bringing

### REPEATS

and it will repay you abundantly to give it

### YOUR RECOMMENDATION

10 1/2 d. size, 8/6 per doz. net. 1/3 size, 12/- net.

3/- size, 27/- net.

£2 worth Carriage Paid.

£6 worth and upwards, subject to 5% discount.

Minimum Retail Prices, 10 1/2 d., 1/3, and 3/-.

N.B. — This allows the Chemist a profit of nearly 33%, or 4d. in the 1/- on £6 lots.

### MANDALL & CO., LTD.

17/23 Stepney Road,

NEWCASTLE-ON-TYNE.

### Dr. CHARLES ROOKE, Ltd.

have pleasure in stating that—

DR. ROOKE'S SOLAR ELIXIR

ORIENTAL PILLS

RHEUMATIC LIXILE

CROSLY'S BALSAMIC COUGH ELIXIR

are not affected by the labelling of  
Poisons Order, January 1926.

DR. ROOKE'S GOLDEN OINTMENT

contains 2.7% Hyd. Ox. Rub. B.P.

KREOZONE contains 8% Creasotum B.P.

17 EAST PARADE, LEEDS.

## IGlodine.

Can you say "Yes" when IGLODINE is requested?

IGLODINE is being advertised. The unfailing effectiveness of its action is going to make trial purchasers into IGLODINE enthusiasts.

Every Chemist should be prepared to supply IGLODINE—a dependable antiseptic, quick-selling and profitable.

Write for fullest particulars and terms—

The IGLODINE Co., Ltd., Pilgrim St., Newcastle-on-Tyne.





**SNOWFIRE  
SEASON  
IS HERE  
AGAIN!**

January, February, March!—these are the great sale months for the popular Snowfire Tablet. Millions know there's nothing like it for chapped hands, rough skin and cracked lips. Wide-spread advertising will give an added fillip to Snowfire Sales, so get in supplies and make the coming months really profitable.

# Snowfire TABLET

Here are some other equally popular Snowfire lines it will pay you to stock. There's a regular demand for them the whole year round:—

Snowfire Face Powder.  
Snowfire Shampoo.  
Snowfire Soap.  
Snowfire Shaving Stick.  
Snowfire Jelly.  
Snowfire Talcum.  
Snowfire Cream.

F. W. HAMPSHIRE & Co., LTD., Riverside Works, DERBY

WORTH A GUINEA A BOX.

## Beecham's Pills

### HOME PRICE LIST

### Beecham's Pills:

1s. 3d. size - 11s. 9d. per dozen  
3s. 0d. " - 28s. 0d. "  
5s. 0d. " - 54s. 0d. "

Less 2½% Cash Discount.

A further 5% allowed for Window or other Advertising display.

Orders: Minimum quantity £5 value (Assorted sizes).

PACKAGES FREE. CARRIAGE PAID.

TERMS: CASH WITH ORDER.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Westminster Bank, Ltd., St. Helens."

**THOMAS BEECHAM, ST. HELENS, LANCs.**

(Proprietors: Beecham Estates and Pills, Ltd.)



**G.O.**

(CELLOPHANE PACKED)

## Seidlitz Powders

Lemon Flavoured Sweetened, extra strong, 3d.  
B.P. Strength, 2d.

### DOUBLE BONUS OFFER DURING JANUARY & FEBRUARY ONLY

		Cost	Retail
		£ s. d.	£ s. d.
1	1 Gross 3d. Bonus 20 × 3d.	1 1 0	2 1 0
2	1½ Gross 3d. Bonus 40 × 3d.	1 11 6	3 4 0
3	3 Gross 3d. Bonus 120 × 3d.	3 3 0	6 18 0

For Mixed 2d. and 3d. Parcels substitute in proportion of 9 doz. 2d. for 6 doz. 3d.

Supplied only to the Drug Trade. P.A.T.A.

Carriage Paid less 2½% for C.W.O.

### MILNER'S MANUFNG. CHEMISTS

(J. Milner, M.P.S.)

11 JOHN PENN STREET  
LONDON, S.E.13.





# WINTER SPECIALITIES

Send us your Enquiries for

**MALT & OIL, COD LIVER OIL EMULSION, COUGH MIXTURES, EMBROCATION, B.P. LINIMENT, Etc., Etc.**

These and many other preparations necessary to the Winter trade are illustrated and priced in our latest catalogue, which we shall be pleased to mail you.

*Special Quotations given for Winter's Supply of Malt and Oil.*

## BLACKIE'S COLD CREAM IS AN ASSET TO YOUR BUSINESS

FREE SAMPLE AND PRICE ON APPLICATION.

## ROBERT BLACKIE

Sole Proprietor and Manufacturer of World-Famed "SPUN" (Regd. Trade Mark) OINTMENT

**SHEN WORKS, TOWER BRIDGE ROAD, LONDON, S.E.1**

Telephone : HOP 2415.

Telegrams : "USHENSPUNA, LONDON."

### TO THE RETAIL CHEMISTS and DRUGGISTS of GREAT BRITAIN

FOR some time past the "Wampole" Brand Specialties have been regularly detailed and sampled to the Medical Profession of Great Britain, with the result that the demand has increased greatly and is steadily growing.

All chemists should have these well-known preparations on hand, in order to be able to fill promptly physicians' prescriptions.

Revised P.A.T.A. Prices—		Minimum Retail	Per Dozen
Extract of Cod Liver—Wampole	15 oz.	5/-	45/-
	6 oz.	3/-	27/-
Phospho-Lecithin—Wampole	16 oz.	6/-	51/6
	8 oz.	3/6	30/-
Creo-Terpin Comp.—Wampole	16 oz.	8/-	71/6
	8 oz.	4/6	40/6
Magma Magnesia—Wampole	16 oz.	2/6	22/-
Magnolax Brand Emulsion— Wampole	16 oz.	4/-	34/-

*Winchesters—Prices on Application.*

MADE IN CANADA BY  
**HENRY K. WAMPOLE & Co. Ltd.**

Manufacturing Pharmacists,  
**PERTH, ONTARIO, CANADA.**


British Distributors—  
**FRANCIS NEWBERRY & SONS, LTD.**  
LONDON, E.C.1.

**DUTCH**  
*Sugar  
of Milk.*  
**"THE BEST"**

**HOLLANDSCHE  
MELKSUIKERFABRIEK  
Amsterdam.**

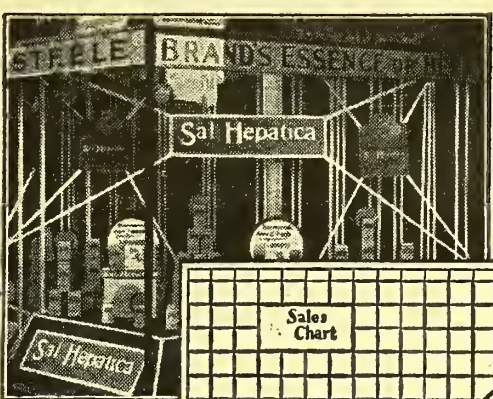


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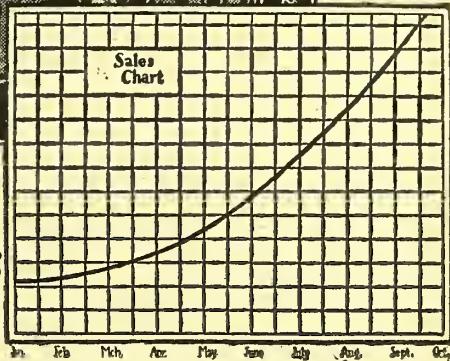


*Sal Hepatica*  
The daily expectorant.

*makes this*



*which makes this*



**This new salt does 2 things**  
1. Cleans your white matter and skin.  
2. Improves the circulation of the blood.  
Sizes 1/9 and 3/6.

**Sales Chart**

Jan Feb Mar Apr May June July Aug Sept Oct

## More bottles sold - more profit on each bottle!

**R**ECORD sales are being made in shops like the one we show—you have an equal opportunity of making more money.

The method is *display*—it draws people into your shop—it breaks down their last line of resistance, it catches them when their purses are open.

And the special display offers make it well worth your while to show Sal Hepatica. These terms have gone into effect and will stay in effect—they mean that if you show this salt you will not only sell more but you will also get more profit on each bottle.

Every possible support is given you. Forceful advertisements are appearing *regularly* in four great

These are the new display offers—order from us or through your regular P.A.T.A. wholesaler; the generous terms hold either way.

- No. 1 6 dozen "small" and 3 dozen "large" for £7.17.11½ instead of the usual £8.15.6—a reduction of 10%. Your total profit, £3.16.0½, or 48.1% on your investment.
- No. 2 3 dozen "small" and 1 dozen "large" for £3.8.8 instead of £3.14.3—a reduction of 7½%. Your total profit, £1.10.4, or 44.1% on your investment.
- No. 3 1 dozen "small" for 14/11½ instead of the usual 15/9—a reduction of 5%. Your total profit, 6/0½, or 40.5% on your investment.

**Terms:** For direct orders 30 days for Nos. 1 and 2 with 1½% off for cash. No. 3, cash with order or on delivery, with 1½% off. Or from your wholesaler.

Sunday papers. This advertising prepares your customers, makes them ready to hear you say Sal Hepatica.

For your window and counter, too, attractive new showcards, cut-outs, and window strips have been prepared to make a display which is at once striking yet in harmony with the dignity of your shop. And there are the new price tickets—chemists are saying that these are the neatest pieces of display material that they have yet seen.

Sal Hepatica is a quality product, a saline for your discerning regular customers.

Display it and you, too, can see your sales go steadily up and stay up. Many chemists already have a sales chart like the one reproduced above.

Take advantage of these special terms. Write for the show material. We will send it promptly and without any charge.

Bristol-Myers Company, 112, Cheap-side, London, E.C.2.

*An effervescent saline based on an analysis of the famous bitter waters of the great European Spas—and containing lithia in an efficient quantity.*

# Sal Hepatica



*A High-class Pharmaceutical Preparation  
for sale by Pharmacists only*

# WESTON'S 'STOP-COUGH'

MANUFACTURED BY QUALIFIED CHEMISTS  
AND SOLD ONLY BY QUALIFIED CHEMISTS.  
CAN BE RECOMMENDED WITH CONFIDENCE  
AND CARRIES A GOOD PROFIT.

*Send us a post-card for our Special Window Display Terms.*

**GRAFTON CHEMICAL CO., LIM'D.**  
**59 GRAFTON STREET, MANCHESTER.**

PHONE: CENTRAL 6914

ESTABLISHED 1772

## HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity by

Messrs. THOMAS & WILLIAM HENRY, II, East Street, St. Peter's, Manchester.

And is sold in Bottles, authenticated by a stamp bearing their name.

Trade Mark, "Henry's Calcined Magnesia."

New York: Messrs. SCHIEFFELIN & CO, William Street.

PRICE 2s 9d

Paris: Messrs. ROBERTS & CO, 5, Rue de la Paix.

## BESORBON

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE  
FINEST REMEDY FOR CATARRH & COLD  
IN THE HEAD.

Richard Dickeson & Co.

(Incorporated with Reynolds, Sons & Co., Ltd.)

57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

## QUININE

QUINIDINE  
CINCHONINE  
CINCHONIDINE

Sugar-coated Quinine Tablets and Pills.

and

## SALTS

Gelatine-coated Oval Pills.

BANDOENG  
JAVA

**BANDOENG QUININE FACTORIES**

AMSTERDAM  
De Wittenkade 48-50.

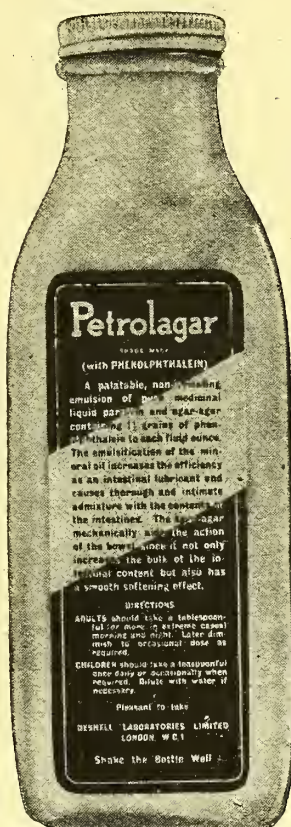
Telegrams: "Kininefabriek Bandoeng."

Samples, prices and particulars on application.

Telegrams: "Semadmy Amsterdam."

# Petrolagar

(DESHELL)  
(TRADE MARK)



*Issued in Pound and Half-pound Sizes as follows:*

No. 1 -	PLAIN	No. 2 -	PHENOLPHTHALEIN
No. 3 -	ALKALINE	No. 4 -	UNSWEETENED

The Principle of Lubrication and Bulk calls for the usage of Petrolagar Plain in all cases unless special considerations indicate one of the other forms.

MADE IN ENGLAND BY

**DESHELL LABORATORIES**  
LIMITED

1-3 BRIXTON ROAD

LONDON, S.W.9



# WRITE SILVERLOCKS, THEY HAVE IT

**H**ERE'S a list of really useful sundries, some of which you need about now. Look through your stocks and order fresh supplies before your present ones are entirely depleted.

Remember, you can depend upon Suttley and Silverlock's goods for quality and serviceability. Drop us a line whenever you need sundries that are doubly useful because made by a firm with vast experience of your special needs.

## NOW READY. LATIN LABELS.

Revised Edition.  
Black on Yellow paper for Stock Bottles,  
Drawers, etc.

### SELECTED SET.

In Books containing—  
296 Medium Size Labels.  
40 " " Blanks.  
222 Small " " Labels.  
42 " " Blanks.  
Price 10/- per set. Post Free.  
Single Labels also supplied to order.  
Large size @ 3/6 per dozen.  
Medium " @ 3/- " "  
Small " @ 3/- " "

## SALE OF POISONS REGISTER BOOKS.

In conformity with the Poisons and Pharmacy  
Act, 1908.

No.	In three sizes.	Price
1. Containing	320 entries .. ..	4/6
2. " "	576 " .. ..	5/6
3. " "	1,024 " .. ..	6/6

## PRESCRIPTION BOOKS.

Silverlock's Approved Prescription Books.  
**Long Folio F'cap (size 15 $\frac{3}{4}$ " x 6 $\frac{1}{2}$ ")**  
No. 1 Quality, Whole Bound Rough Cali, with  
Printed Heading, indexed, 250 Pages 21/6;  
500 Pages 27/6; 1,000 Pages 50/-.  
No. 2 Quality Half Bound Buff Basil, without  
Printed Heading, indexed, 500 pages 21/-.  
**Broad Folio F'cap (size 12 $\frac{1}{2}$ " x 8")**  
No. 1 Quality Whole Bound Rough Cali with-  
out Printed Heading, indexed, 500 Pages 25/6;  
750 Pages 27/6; 1,000 Pages 42/6  
No. 2 Quality, Half Bound Buff Basil, without  
Printed Heading, indexed, 500 Pages 19/6

## OPTICAL SALES HELPS.

Our range of Blotters, Showcards and Folders,  
forceful in design and well printed, will stimu-  
late the turnover in your Optical Department.  
Write for full range of samples and prices.

## LABELLING OF POISONS ORDER 1924

Labels to meet the requirements of new  
Poison regulations.  
We hold a large and varied stock which can  
be supplied per return of Post.  
Write for Samples.

## DANGEROUS DRUG ACT, SUTTLOCK REGISTER.

Strongly bound in green rexine. Divided into  
sections for Sales and Purchases.  
Meets all the requirements of the Act.  
Send for one NOW. 7/6 post free.

## STOCK CARTONS.

4-oz., 6-oz., and 8-oz. sizes.  
We hold a large stock of Cartons in standard  
wordings for Winter Remedies, etc.  
Send for samples and prices.

**Chemists'  
Printers**

**Suttley &  
Silverlock**  
CHEMISTS' PRINTERS

**Blackfriars  
London, S.E.1**

# POISON REGISTERS.

5 x 5 $\frac{3}{4}$  { 500 Entries } 4/6 post free.  
                  { one on a page }

10 x 8 $\frac{1}{4}$  { 100 pp., 18 Entries } 5/- " "  
                  { on page }

Ditto 250 pp. 10/- " "

All D.D.A. Registers stocked.

**JAMES TOWNSEND & SONS**  
EXETER.

London Office: 54, Farringdon St., E.C. 4.

# DR. BENGUE'S BALSAM

RHEUMATISM, NEURALGIA, GOUT.

PULMO (BAILLY).—Dr. BENGUE'S DRACEES.  
FORXOL.—HEMOSTYL.—EUPURGO.  
Dr. BENGUE'S ETHYLCHLORIDE.  
RICARD-CACHETS (Free sample on application).  
ANESTILE. NARCOTILE. MUTHANOL.  
EUPHORIAN AMPOULES (Entero-Antigens)

WRITE FOR Dr. BENGUE & CO., MFG. CHEMISTS,  
SPECIAL TERMS 24, FITZROY ST., LONDON, W.1.

# "TAPON" (Regd.)

Tie up your Parcels with Advertising Tying  
Tape. Pleases both Eye and Pocket and gives  
Distinction to every Parcel sent out.

Various Colours and Widths. Printed or Plain.

Write for particulars, when Prices  
and Patterns will be forwarded.

**S. D. SIMOND & CO., LTD.**  
10 Monument Street - - E.C.3

Tel.: Avenue 6378. Telegrams: "Duncasim London."



# The scientific bowel regulator endorsed by physicians



## Points to Remember—

Agarol is the original mineral oil—agar-agar emulsion, and has these special advantages:

It is perfectly stable, odourless and palatable. It causes no griping, nausea, or any disturbance of digestion or nutrition. It mixes freely with the bowel content; it lubricates without leakage of oil.

No limits of age, season or condition restrict the use of Agarol with safety. It contains no sugar, saccharine, alkalies, alcohol or hypophosphites.

THE enthusiastic reception of Agarol Brand Compound by physicians all over the country has been immediate and whole-hearted.

To give convincing proof of its worth, Agarol was put to the most severe test possible—samples were sent to thousands of physicians everywhere for experiment and test in their own practice.

Letters from these physicians have been pouring in ever since, full of praise for the successful results obtained.

Consistent circularising and medical journal advertising, as well as personal detail work, will continue to keep Agarol before the medical profession.

Highly gratified by the success of its use in even the most stubborn cases of constipation, more and more physicians are prescribing Agarol.

To meet the frequent and sustained demand thus created, every chemist should stock Agarol.

# AGAROL BRAND COMPOUND

Distributing Agents for Great Britain:

FRANCIS NEWBERRY & SONS, LTD., 31-33 Banner Street, London, E.C.1.

Prepared by WILLIAM R. WARNER & Co., Inc., Manufacturing Pharmacists Since 1856.



Write for  
Illustrated  
Lists.

# Venesta Collapsible Tubes

Lipsalve Cases, Sprinklers, etc.

Made in Pure Tin, Lead,  
or Lead coated with Tin,  
Plain or Enamelled, and  
printed with designs to suit  
customers' own requirements

Manufactured by

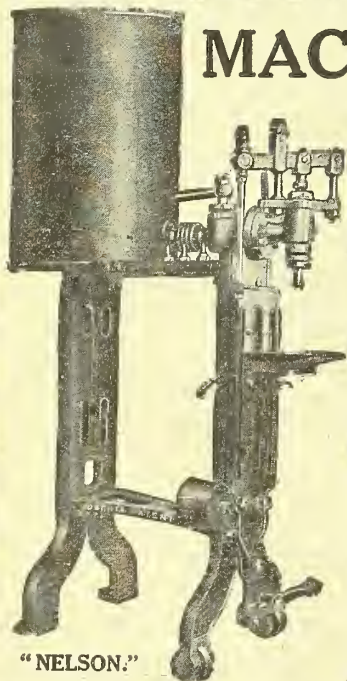
**Venesta Ltd.**  
1, Great Tower St. EC3  
London, England

Telephone :  
ROYAL 4200  
(6 lines).

Telegram :  
"Venesta, Bilgate,  
London."

Tubes, etc., are manufactured to Customers' own specification

## ROBERTS' ORIGINAL PATENT BOTTLE-FILLING MACHINES



Don't waste money  
on imitations, buy  
Roberts' Machines  
which actually  
Created the Records for

**CLEANLINESS  
SIMPLICITY**

and Rapidity in  
Bottle Filling.

Write for new  
Price Lists.

NOTE the Address :  
**ROBERTS' PATENT  
FILLING MACHINE CO.  
33 ROUNDCROFT ST.  
BOLTON.**

Our latest patent  
"Alpha," price £12,  
will fill 10 gross bottles  
per hour.

Write for Particulars.  
All Rights Reserved.

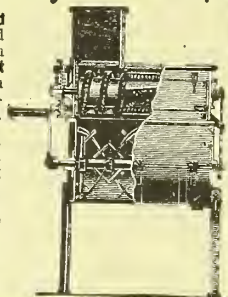
*This gives a thorough mix-up*

A Gardner "Rapid" sifter and  
mixer will thoroughly sift and  
mix  $\frac{1}{2}$  oz. of one ingredient with  
a 30-lb. mixture of dry powders at  
one operation, and "every pinch  
of the whole will show its pres-  
ence"—a customer's statement.

Write us for list of Ball Mills,  
Disintegrators, Millstones and  
Mills, Drum Sieves, Drying  
Machinery, etc.

**WM. GARDNER & SONS  
(Gloucester) LTD.**

Bristol Road, GLOUCESTER.  
Phone 117. Grams: "Gardner," Gloucester



## Make 1926 a Success

Cut out the leakages and errors  
that reduced your profits last  
year—and adopt the perfected  
cash and sale checking system  
provided by a Gledhill Till.  
It may mean the difference  
between gain and loss, success  
and failure.

Our money back offer ensures  
satisfaction.

Send for Catalogue  
showing how the  
Gledhill Till will help  
your business along.

**G.H. GLEDHILL AND SONS  
LIMITED**  
16 TRINITY WORKS, HALIFAX.





# Don't miss your rightful share of the O-Cedar Trade

O-CEDAR POLISH is a paying side-line for the retail Chemist in every sense of the word. It is easy to stock—sells on sight—and every bottle carries a generous profit. Every advertisement we issue boldly and specifically directs the public to the Chemists' shops for supplies. You have only to link up with this extensive publicity campaign by making attractive displays of O-Cedar Polish, therefore, to ensure a steadily increasing demand. Details of the generous trade terms, particulars of the attractive display stands and full supplies of showcards sent free on request. Write for them immediately.



# O-Cedar Polish

O-CEDAR, Ltd.  
SLOUGH, BUCKS.



## FAIRY DYES

Mean Greater Turnover for You—and Absolute Satisfaction for Your Customers.

THERE is no more attractive line on the market to-day—there is no better seller—and no article has made larger strides in popular favour.

## FAIRY DYES

are now sold in glass tubes, encased in smart, clean-looking "safety-first" cartons. They are retailed at 2d. each, made in 25 popular shades and colours, and are extensively advertised in the right publications.

You can rely upon Fairy Dyes—for prompt delivery in any quantities—for fresh stocks—for quick, easy-to-handle, clean turnover, and as tried favourites your customers are always satisfied. See that you are supplied without delay.

For Trade Terms and particulars write to

# FAIRY DYES, LTD.,

61 WELL ROAD  
GLASGOW.

London Depot - - - - - 292 UPPER STREET, ISLINGTON, N.1.

# BEARDMORE

## Ability.

The ability of Beardmores to cope with abnormal demands is conclusively proved by the fact that for over 5 years Beardmore Taxi-cabs, with identical chassis have withstood the stress of London traffic with the minimum of mechanical fault.

## Liability.

Beardmores ensure a delivery service of highest efficiency for Business Houses anxious to maintain a policy of strict economy. Running costs, etc. are so low that the initial outlay practically ends the liability.

## Reliability.

No matter the purpose for which Beardmores are used, the conditions to which they are subjected, reliability is the keynote of their performance. They are built to last and no Beardmore is considered ready for the purchaser until it has passed every test which years of unrivalled experience can devise.

### BEARDMORE MOTORS, LIMITED

112 GREAT PORTLAND STREET - - - LONDON, W1

(Principal Proprietors: WM. BEARDMORE & CO., LTD.)

Telephone: Museum 8770 (3 lines).

Annesland, GLASGOW. Tel.: Western 1837-8.

Telegrams: "EROMDRAEB, WESDO, LONDON."

4 Imperial Bldgs., Oxford Rd., MANCHESTER.

15 CWT. **BOX VANS** 30 CWT.



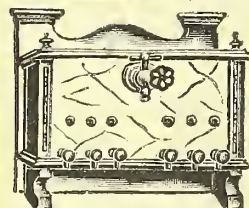
### J. P. Jackson & Co.'s RAPID FILTERS.

Latest designs for Rapid Filtering  
of Essences, Tinctures, Syrups,  
Cordials, Wines, and Spirits.

All Sizes Stocked.

Absolute brilliancy and great  
speed.

ASBESTOS FOR FILTERING  
2/- per lb.



### SODA FOUNTAINS and SODA WATER MACHINERY

of Improved Construction  
and with all latest  
improvements.

Produce the Highest Quality of Aerated Waters,  
in Cork, Crown or Ball Stopper Bottles.

### JNO. P. JACKSON & CO., LTD.

Engineers & Coppersmiths, Makers of Chemists' Machinery, etc.  
POWELL SQUARE - LIVERPOOL.

Telephone: Central 724.

*The Premier.*

### CHEMISTS' SHOPFITTERS

H. MILLS & SONS Ltd.  
163-5 OLD STREET  
LONDON, E.C.

### SHOPFRONT SPECIALISTS

SPECIAL LINE OF SHOWCASES  
FOR IMMEDIATE DELIVERY.

### SHOWCASES

UPRIGHT CENTRE CASES, WALL CASES,

### GLASS COUNTERS, MIRRORS

WINDOW FITTINGS, GLASS SHELVES,

### SHOW STANDS, DRAWERS, DESKS

CHECK TILLS, &c. Immense Stock.

NEW and SECOND-HAND.

Ready for Immediate Delivery. For Sale or Hire.

### FREDERICK MAUND

175/9 Old St., LONDON, E.C.1.



# Make it Your Record Year!

"A HAPPY NEW YEAR TO YOU ALL" is the wish of Dr. GRIP—the Genial Purveyor of Good Health and Business.

Make 1926 a prosperous year and feature his popular "GRIPS" FIRST-AID PASTILLES—the wonder success of the trade and the line that is breaking all sales records at home and abroad.

*Generous trade terms and good advertising. Constant demand.*

*Distributing Agents to the Wholesale and Retail Chemists' Trades:—*

**Thos. Christy & Co.,** 4-12 Old Swan Lane,  
LONDON E.C.4.

**JANUARY  
FEBRUARY  
MARCH**

three of the worst months of the year for weather, but three of the best for "GRIPS." Feature them in your window shows and reap your winter harvest.

# 'GRIPS' FIRST AID PASTILLES

Issued by J. W. Lightbown & Sons, Manchester Road, Accrington.

# G. W. CARNRICK CO.

## ENDOCRINE PRODUCTS

Our organotherapeutic products are made from fresh glands of healthy food animals in our own laboratory, under the supervision of competent chemists. All moisture has been removed from these gland products and they will keep indefinitely if contents are not exposed to moisture and bottle is kept tightly corked.

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**SECRETAGEN**  
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**ERYTHROGEN**

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| No. 1. Glandular Comp (Male)   | No. 7. Parathyroid Comp.           |
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# THE CHEMIST AND DRUGGIST

## SUPPLEMENT

42 CANNON ST.  
LONDON E.C. 4

JANUARY 16, 1926.

*This Supplement is inserted in every copy of The Chemist & Druggist.*

### CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.

May be consulted at their Offices on matters of Sale, Purchase and Valuation.

1.—WANSTEAD (Near).—Old-established Business, main road position; returns exceed £3,000 yearly; profit (gross), 40 per cent.; attractive, well-fitted shop, fully stocked; comfortable residence, garden; moderate rental; price, £2,250.

2.—GREAT EASTERN MAIN LINE (Few Miles Out).—Ready-money Business; returns about £35 weekly; good opening for Optical; comfortable residence, bath, garden; long lease; price, £1,000.

3.—LONDON, N.E.—To effect an immediate transfer Vendor is willing to make a sacrifice; returns about £17 weekly; excellent opening for a qualified man; price about £350; part-payment.

4.—STRATFORD (Main Road).—General Retail Business with Kodak Agency; returns, under management, about £1,500; double-fronted corner shop, fitted in mahogany; store rooms and yard; rent 10s. weekly; long lease; terms, valuation of stock and fixtures and sum for goodwill to be arranged.

5.—OXFORD STREET (Few Doors From).—Ready-money Business, comprising General Retail, Optical, Dental and high-class Hairdressing Salon; returns, £5,000; profits above the average; rent, £204 10s.; sublet about £458. Intending investors with capital at command can have particulars.

6.—ESSEX.—Modern Cash Retail Business, situate in growing district; returns, £1,000 per annum, increasing; net profit, about 25 per cent.; lock-up pharmacy; well fitted and stocked; 19 years' lease to run; price £950, or near offer entertained.

7.—BRIXTON.—General Retail and Photographic Business; returns average £34 weekly at good prices; single-fronted shop, well fitted; good working stock; moderate rent; long lease; offers invited.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

8.—SOUTH-EAST COAST.—Sound Family Retail Business, with Kodak Agency; old-established; returns for 1925 exceed £3,000 net profit, over £800; modern double-fronted shop; good mahogany fixtures; living accommodation; new 21 years' lease will be granted; terms, goodwill £550, plus stock and fixtures at valuation; this is a genuine concern and worth immediate attention.

9.—CUMBERLAND.—General Retail Business, with Kodak Agency; returns, last year, £1,705; net profit, £400; single-fronted shop, well fitted and stocked; rent, £35; practically unopposed; price, £850.

10.—LANCASHIRE.—General Retail Business, with Wine Licence and small Optical connection; established 50 years; returns, £2,400, with scope for considerable increase; net profit, £600; small living accommodation; held on lease; valuation terms entertained.

11.—BRISTOL.—Light Retail and Dispensing Business; returns, £1,100 per annum, at good prices; corner shop; Vendor estimates stock and fixtures at £600; comfortable house; net rent and rates, £23; held on lease; price about £675.

12.—SOUTH WALES.—Cash Retail Business; established many years; returns, £1,000 per annum; gross profit, £400; single-fronted shop, well fitted and stocked; teeming population; price, £450.

13.—MIDLANDS.—General Retail Business, with N.H.I. Dispensing; established 1871; returns this year, £1,500; net profit, £400 about; single-fronted shop, with living accommodation; rent, £50; held on lease; price, £1,000.

14.—NORTH-EAST COAST.—Good-class Retail and Dispensing Business, with Photographic; returns exceed £1,300 per annum; net profit, £350; large double-fronted shop; rent, £60 yearly; held on lease. Owing to ill-health, Vendor will accept £1,050.

### Valuations for Stocktaking

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such service.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4**

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With Vacant Possession. Main thoroughfare Shop in the best position of Union Street, close to Derry's Clock.

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are instructed by the Owners to SELL by AUCTION, at the Law Chambers, Princess Square, Plymouth, on

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On the Ground Floor:—Modern Shop, 2 Storerooms, w.c., also large Warehouse with loft over and back entrance to lane. The accommodation on the upper floors includes 4 good rooms and 2 attics.

NOTICE.—The Goodwill of the Chemist's Business (established in 1827), and now carried on by Messrs. Turney & Sons, will be included in the Sale, and the purchaser will have the option of acquiring the Stock-in-Trade, Fixtures, and Fittings at a Valuation.

Further Particulars, Orders to View, and Conditions of Sale, may be obtained at the Auctioneers' Offices, 6 Frankfort Street, Plymouth, or

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The Third and Final Clearance Sale of nearly  
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BRITISH EMPIRE EXHIBITION, WEMBLEY,  
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30 SILENT SALESMEN and CENTRE CASES,

12 MIRROR-LINED WALL SHOWCASES,

40 COUNTER SHOWCASES, 60 MIRRORS,

Cash Desks and Tills, Typewriters, Safes, Desks,

Large Miscellaneous Quantity of Display Fittings.

All the Showcases are in mahogany, well made and new except for the few months' wear at the Exhibition, during which period they have been well cared for. All are of standard dimensions, and consequently suitable for general shop and showroom display.

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On View Day Prior.

Catalogues on Application.

### FOR SALE.

10 CASES of fine new Honey in 1 cwt. cases; excellent quality; sample on application; 62s. 6d. net cash, carriage paid. Sidebottom, Chemist, Accrington.



# The Association of Mnfy. Chemists

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Business Agency Transfer and Valuation Department,

Head Offices—Kimberley House, Holborn Viaduct, London, E.C.1 (and at 2 Bixteth Street, Liverpool)

PARKIN S. BOOTH, Accountant and Valuer. Phone: City 1261-2-3

## BUSINESSES FOR DISPOSAL.

1.—SOUTH WALES.—Cash Retail Business in main street of good town; lease of 7 years at rental of £50 p.a.; returns, £30 p.w.; premises consist of good shop and five rooms, one of which is fitted as dark room and one as optical room; stock approximately £500; valuation terms. (23)

2.—S. DEVON.—Good-class ready-money Business in important town; returns, £50 p.w.; Kodak, N.H.I., etc.; d.f. shop, with 8-roomed house; price, including freehold property, £2,600. (14)

3.—SOUTH DEVON.—Very old-established Business in residential district of busy town; returns, £34 p.w.; rent, £90; lease to be arranged; double-fronted, well-fitted shop and house with 7 rooms; side entrance, store, etc.; price £1,450. (15)

4.—YORKS.—Cash Business, in main road, in important industrial town; 5 years' lease will be granted at £90 to £120 p.a.; returns, £30 per week; Kodak Agcy.; dwelling accommodation; price, goodwill, £450; stock, fixtures at valuation. (17)

5.—SOUTH COAST RESORT.—Cash Retail and Dispensing Business, situated on main road; premises consist of large lock-up shop, held on lease, 19 years to run at £170 per annum; handsomely fitted and good, saleable stock carried; returns, £2,000; scope for increase; price, £2,000 or near offer. Full particulars on application. (19)

6.—NORTHUMBERLAND.—Recently established Cash Pharmacy; Kodak Agency; lock-up shop; well fitted and stocked; returns average £14 per week; good opportunity for smart, energetic, qualified man. Full particulars on application.

7.—LANCS.—Small Drug Stores; lock-up shop with room at rear; rent, 13s. 6d. per week, including gas; established 2 years; returns, £8 per week; can be considerably increased. Full particulars on application. (21)

8.—GLAMORGANSHIRE.—Cash Ret. and Disp. Business; premises consist of lock-up shop with room at rear; held on lease, 4 years to run at £50 p.a.; est. 20 years; well-fitted; good stock carried; reason for disposal, ill-health; full pars. on appl'n. (22)

9.—YORKSHIRE.—Retail Dispensing Business; established 12 years; premises consist of shop and room at rear, two bedrooms above; lease 5 years; conveniently fitted and well-stocked; returns, £1,905; price for quick sale, £790. (26)

10.—PRESTON (7 Miles from).—Old-established Drug Stores; in present hands 29 years; premises consist of double-fronted shop, 5 store-rooms and yard, with 6-roomed house adjoining; well fitted and excellent stock carried; returns average £18 per week; great scope for qualified man; price, including property, £2,200. Further particulars on application.

11.—SURREY.—For immediate Disposal, Drug Stores; est. 20 years; d.f. shop with room at rear; well-fitted and stocked; lease would be granted; returns, £1,000 p.a.; all ready money; good scope for qualified man; price, £900 or near offer. (27)

12.—LANCS.—Retail Chemist; corner shop; well populated district; takings over £25 per week, now £14; N.H.I. £4 per week; rent, £60 p.a.; lease will be granted; full wine licence without restrictions; stock, £4/500; fixtures, £200. (30)

13.—HERTS.—Old-established Retail Chemist's Business; good stock; Kodak agency. Premises consist of lock-up shop with excellent fittings, property of the landlord; rent, £1 per week; lease will be granted; returns, £20 p.w., but under personal supervision, and with the addition of N.H.I. dispensing, this could easily be doubled. Low price for quick sale. (33)

14.—YORKS.—High-class Pharmacy; returns average £6,000 p.a., all ready money; old established; lease 6 years; possibility of renewal; stock value £2,600 without fixtures; premises consist of large double-fronted corner shop, side door, and yard with separate entrance, 6 large rooms, 2 large cellars and dark room; rent £250 p.a.; price for stock, fixtures and lease, £5,000.

Do you realise the importance of knowing the true value of your stocks and thus being able to arrive at the net working profit? We undertake this work for an inclusive fee at short notice. Chemists in the South, South Midlands, and South Wales, wishing to dispose of their business or desirous of obtaining particulars of businesses for sale, or inquiries as to valuation terms, are requested to communicate with Kimberley House, Holborn Viaduct, London, E.C.1.

Chemists in the North, North Midlands and North Wales, please write to 2, Bixteth Street, Liverpool.

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WILLIAM S. FISH.

VALUERS AND TRANSFER AGENTS,

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(one minute from St. Pancras and King's Cross Stations.)

1.—EAST COAST.—Good middle-class family and season trade in rapidly growing town; returns over £2,300; net profit over £500; books audited; convenient premises, well stocked; owner retiring; price, £1,600; recommended.

2.—CUMBERLAND.—Unopposed country Retail and Agricultural Business, with Kodak Agency; returns, £1,700; net profit about £400; lock-up shop, neatly fitted and well stocked; price, £850.

3.—WEST OF ENGLAND.—Light Cash Retail, with N.H.I., in large town; returns over £1,000; plenty of scope; modern double-fronted shop, with comfortable house; low rent; on lease; price, £675; little more than valuation.

4.—NORFOLK.—Old-established Retail and Agricultural Business in market town; turnover over £2,500; good profits; large premises, on lease; fully stocked; price £200 and valuation, in all about £1,400.

5.—LANCS.—Light Cash Retail with N.H.I.; returns £2,400, increasing; net profit £600; moderate rent, on long lease; stock and fixtures worth £1,100; price £1,500 cash; worth seeing.

6.—MANCHESTER.—Light Suburban Drug Store; returns average £25 a week; splendid opening for N.H.I.; low rent; corner shop; well fitted and fully stocked; house attached; same family 29 years; price £375; only requires seeing.

7.—LONDON, S.W.—Old-established Light Cash Retail, in good main road position; returns, average £1,400; plenty of scope; long lease, low rent; price, £900.

8.—LONDON, N.W.—Well-established Drug Stores; in same hands 20 years; now retiring; returns £20 a week; can be doubled in qualified hands; well-stocked shop, with house attached; low rent, on lease; price, £750; recommended.

## STOCKTAKING VALUATIONS.

May we quote you a price for doing this important work? Stocktaking, to be of real use, should be done thoroughly, and with our experienced and expert staff we are able to guarantee this, at the same time carrying out the work quickly and without upsetting the general routine of business. We are now booking dates for February and onwards.

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Stock Valuations now being booked for 1926 and as visits to all parts of Great Britain and Ireland are already arranged, Pharmacists need not hesitate on grounds of travelling expenses.

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All valuations have the personal attention of F. J. Brett, M.P.S.  
TRANSFER AGENTS AND VALUERS.

73 - LAUREL ROAD, LEICESTER. Telephone: 1934.

## FOR DISPOSAL

£3,500 RETURNS, DERBYSHIRE.—Good Light Retail; very old established; good position; price £1,600.

£3,000 RETURNS, GLOUCESTERSHIRE.—Fine double-front Shop; handsomely fitted shop; good thoroughfare; net profit £850; electric light; good house; price £2,300.

£16 to £17 WEEK, DURHAM CO.—Branch; with personal attention can be doubled; price £650; less than value of stock and fixtures

£800 RETURNS, LANCS.—General Light Retail; very much neglected; can be doubled; price £500.

£1,300 RETURNS, YORKS.—Village Business; unopposed; good house; price £650.

£900 RETURNS, within 16 miles of GLASGOW.—Net profit £320; low rent; good chance for improvement; only obliged to sell on account of ill-health; price £500.

Number of Buyers with cash ready in most districts.  
BUSINESSES WANTED.



**CHARLES C. MARSDEN**

Valuer, Transfer Agent and Stocktaker,

44 SHOLEBROKE VIEW, LEEDS.

**STOCKTAKING VALUATIONS AT SPECIAL REDUCED TERMS.**

Chemists own stock sheets priced out at low rates.

Recommended and approved by Messrs. Goodall, Backhouse &amp; Co., Hirst, Brooke &amp; Hirst, Ltd., &amp; Ralmes &amp; Co.

**BUSINESSES FOR DISPOSAL.**

**ABERYSTWYTH.**—Seaside resort and University town. Old-established Chemist's Business, with Photography, in main street; corner shop; well stocked; modern fixtures; returns over £2,000; death vacancy; lease, about 50 years, at low ground rent; premises and business for sale as going concern. Apply Ellis, Penmariann, Penmaenmawr.

**BIRMINGHAM.**—Cash Retail Business for Disposal in working-class district; N.H.I. Dispensing and Photographic (Kodak Agency); returns, 1925, £1,468; rent, £50; lease; living accommodation; price, £1,000 or near offer. 255/20, Office of this Paper.

**GLAMORGAN (Near Coast).**—Wine Licence; turnover, last six months, near £800; healthy locality; great opening Optics; no one doing it; sell or lease property; business, £775; property, £875; worth £1,000; genuine; would sacrifice to buyer of property and business, or £75 rental yearly; good living accommodation. 255/17, Office of this Paper.

**ILFORD.**—Fine chance to acquire a very old-established Business; same hands over 30 years; being sold on account of death; well-fitted shop, 5 good rooms and garden; enterprising young man can make a fortune here; splendid opening for N.H.I. and Photography; price, £1,500, which includes good stock; leasehold property, £800. Apply Bennett, 6 Thorold Road, Ilford.

**LANCS. (Gt. Harwood, near Blackburn).**—Drug Stores; splendid position; double-fronted shop; first-rate opening for qualified man; electric light throughout; good living accommodation; all modern conveniences; established 20 years; illness cause of leaving. Apply 68 Glebe Street, Gt. Harwood, near Blackburn, Lancs.

**LANCASHIRE (near Wigan).**—A thoroughly sound Cash Retail and N.H.I. Business; no opposition; price £1,000; full particulars to genuine buyers; no agents. Write 256/25, Office of this Paper.

**LEEDS.**—Cash Retail and Dispensing; in present hands 30 years; 1925 turnover £1,650; N.H.I. average 1,000 monthly; good opening for Photographics; nicely fitted and well stocked; 6-room house; low rent; ill-health sole reason for disposal; every investigation courted; net profit £500; bargain at £825. Chas. C. Marsden, Chemists' Valuer, 44 Sholebroke View, Leeds.

**LIVERPOOL.**—Owing to death of proprietor a good Cash Business; double-fronted shop; has been successfully run as a Chemist shop for nearly 90 years; main road; thickly populated district; takings last month £132, excluding N.H.I., which average about 400 month; could be increased; good house (part vacant), four bedrooms, bath and sitting room, large kitchen and scullery; newly decorated and electric light; side entrance; heavily stocked; (lease) rent £70 year; price asked £850. Further particulars, Mrs. Taylor, 12 Broughton Drive, Liverpool.

**LIVERPOOL.**—Splendid large corner Pharmacy for Sale; main road; thickly populous working and middle-class district; interior and exterior beautifully fitted; heavily stocked; every convenience; takings at present over £30 per week; N.H.I. scripts 5,000 per annum, increasing; price, £400; stock and fixtures at valuation. Principals only. Further information at interview only. 255/30, Office of this Paper.

**LONDON, E.**—Drug Store, in thickly populated working-class district; corner shop, 5-roomed house, electric light throughout; fair stock; rent 26s. weekly; good opening for N.H.I.; no opposition; returns, £750, has done treble; established 20 years; in present hands 14 years; good reason for disposal; books kept by C.A.; £650. 256/23, Office of this Paper.

**LONDON, N.**—Sound Business, with Kodak Agency; large N.H.I.; unopposed; neglected, but now increasing under different management; splendid scope; good lease; excellent living accommodation; fully stocked; densely populated neighbourhood; price £950; bankers' references with first letter. "Pharmacist," 161 High Road, Kilburn, N.W.

**MANCHESTER.**—Chemist's Business, with freehold property in good condition, in densely-populated district and surrounded by Doctors; Kodak Agency; Cash trade and N.H.I. increasing rapidly; turnover at present over £1,000, excluding N.H.I. (over 500 monthly); possible to live on premises; will accept £500 down and remainder in instalments (£1,000 in all). Write immediately to 77/568, Office of this Paper.

**NORTH-EAST COAST (Popular Health Resort).**—Good-class Retail and Dispensing Business, with Kodak Agency; large shop, well fitted and well stocked; excellent main road position in good residential neighbourhood; good returns, with scope for increase; rent £60; lease 10 years; reasonable price for quick sale; particulars to bona-fide inquiries. 246/8, Office of this Paper.

**NORTH MIDLANDS (rich agricultural district).**—Old-established Country Business; turnover exceeds £3,000; very profitable; low overhead expenses; long lease at moderate rent; large and convenient premises; well stocked; under personal attention capable of considerable extension; retiring owing to age; exceptional opportunity to anyone liking country life or seeking a sound investment. 243/32, Office of this Paper.

**NORTH-WEST COAST.**—Sell or exchange, Drug Store; new property; general unqualified business, doing around £800; up-to-date qualified man should double or treble this; has done £26 per week; exceptionally good 7-roomed house and nicely fitted shop; latest conveniences; full particulars to cash purchasers; freehold property. 252/21, Office of this Paper.

**NOTTINGHAM.**—Lock-up Drug Store; rental only 7s. weekly clear; returns, £550; stock, fixtures, everything, for £350 for quick sale; leaving district. 254/6, Office of this Paper.

**SOUTH COAST.**—Old-established, beautifully fitted Pharmacy; growing district; long lease; main road; returns about £3,000; net profit £800; Kodak; good reason for disposal; every investigation; good house, side entrance; for quick sale £550; goodwill and valuation, about £2,050; cash only. 241/34, Office of this Paper.

**SOUTH OF ENGLAND.**—Country town; well established; good living accommodation; no opposition; returns £750. For full particulars apply Field & Palmer, 3 King's Road, Southsea.

**WILTSHIRE.**—If you want to buy either one or two highly profitable Businesses, where 2s. 6d. tooth brush sales are daily occurrence and patent trade small, then write me. Owing to £2,000,000 Government scheme population and trade will double itself without effort in 12 months. Books kept and audited; no ifs and buts about these businesses. Making £500 a year now. Owner studying for medical only reason of sale. Slack, 97 Yarrowburgh Street, Manchester.

**YORKSHIRE (outskirts of a large manufacturing town).**—Busy thoroughfare Drug Store Business for Sale; death of proprietor cause of sale; splendid opening for young qualified Chemist, with N.H.I. Dispensing; a mile from nearest chemist; valuation only. 253/33, Office of this Paper.

**YORKSHIRE, WEST RIDING.**—Drug Stores, with Kodak Agency; shop well fitted and stocked; average returns last 5 years £1,850; splendid opportunity for qualified Chemist; inclusive price £1,000; rent £65 per annum. Apply John Atkinson & Co., F.N.A.A., 63 Hailgate, Doncaster.

**A GOOD** sound Business for Sale, with Photography, in Folkestone; corner position, main road; two windows; electric light throughout; good working stock and no rubbish; nicely fitted in mahogany; doing good trade and good profits; selling for no fault. Also the Freehold, a good substantial building; 4 bedrooms, bathroom, 3 rooms down, good large backyard and large motor garage. Further particulars on application. 254/4, Office of this Paper.

**AN** opportunity occurs to acquire unopposed Chemist's Business in attractive country district and developing neighbourhood on main road 29 miles north of London; average yearly returns last 3 years £756; lock-up shop held on lease £26 per annum inclusive; Prescribing, N.H.I., Kodak Agency; price £350. 256/16, Office of this Paper.

**BADLY** neglected Business for Sale in Durham County; at present doing £10 weekly; can easily do £20; nearest chemist 4 miles away; double-fronted shop in good position; good reasons for disposal; price, valuation of stock and fixtures, about £200. 252/27, Office of this Paper.

**CHEMISTS** open to purchase Pharmacy; steady business, sound Panel Prescribing; opportunity will not occur again; rent moderate, inclusive; long lease; accounts properly kept; position main road, London; accommodation for two single men live comfortably; no genuine offer refused; inspection of pharmacy and district sufficient; genuine reasons for disposal by Vendor. "Pharmacology," 255/9, Office of this Paper.

**DEATH VACANCY.**—Old-established Chemist's Business in Yorkshire; badly neglected, but well fitted; good opening for live chemist; sacrifice for quick sale. 77/566, Office of this Paper.

**DRUG** Store in thickly populated good-class neighbourhood; entirely unopposed; nice shop; large parlour behind; one large room over shop useful for Dental Practice, Photographic or Optics; every convenience; at present under unqualified management; good scope for N.H.I., etc.; agreement; must sell owing to ill-health; stock, fixtures, fittings, £350 all, or lump sum down and balance could be arranged; first deposit secured. 253/32, Office of this Paper.

**DRUG** Store for Sale, £500 inclusive, consisting of newly-painted, well-stocked lock-up shop, with one room behind and cellar; fitted electric light and gas; good main road position; returns, under management of a lady, £10 per week; could be greatly increased under qualified; opening for N.H.I.; within half-hour Baker Street. 251/15, Office of this Paper.

**DRUG** Stores, small, for Sale; very near large railway station; main road; thickly-populated district; splendid opportunity Photographic trade; nicely fitted oak, electric light, telephone; price, £200 or offer; stock, at valuation, optional. 256/8, Office of this Paper.

**FOR** Sale, Photographic Dealer's Business; best position; main street; large shop, with plenty of window space for Chemist or Optician; well fitted; stock inclusive; price £1,000; reason for sale, loss of sight. 572 Christchurch Road, Boscombe, Bournemouth.



**FOR** immediate disposal, old-established, well-fitted and stocked Pharmacy, with Photography, in densely-populated district (Lancashire); exceptional scope for N.H.I.; excellent position and living accommodation; price, £875; valid reason for disposal; immediate opportunity for energetic man now; a sound bargain. Particulars, 255/11, Office of this Paper.

Re GEORGE SHAW GIBSON, deceased.

**FOR** Sale, the Business of a Chemist and Druggist carried on by deceased for over 30 years in the main street of West Hartlepool; turnover £22,000; rent £125; stock about £800; shipping trade; no house accommodation. Apply Edward Fryer & Webb, Solicitors, West Hartlepool.

**MANUFACTURING** Chemists' Business for Sale as a going concern; plant, stock, fixtures and lease valued at over £1,500; price £750 for quick realisation; fine opportunity for smart traveller or chemist. Address "X. Y. Z." c/o Lile's Advertising Offices, 4 Ludgate Circus, London, E.C.4.

**OLD-ESTABLISHED** Retail, Dispensing and General Drug Business, in thickly-populated district of Industrial Midland town; middle-class trade; well fitted and stocked; medicated wine licence; successfully carried on for 15 years; living accommodation; good reasons for disposal; low price for immediate purchase. Particulars, 245/7, Office of this Paper.

**OPPORTUNITY** for live organiser to acquire small neglected established Business of Manufacturing Chemists and Patent Medicine Vendors; ideal City premises; Trade Marks, Formulae, Stock-in-Trade, Fixtures, Fittings; every opportunity for fullest investigation. P.C.B. 66/12, Office of this Paper.

**PROPRIETOR** of a unique Patent Medicine for Colds, Throat Troubles, etc. (retailing 2s. 6d. bottle), would sell at low figure formulae and 50 years' London and country connection; great possibilities. Write P.C.B. 70/190, Office of this Paper.

## BUSINESSES WANTED.

**ADVERTISER** requires a Retail and Dispensing Business, preferably on or near the Isle of Wight; £500 down and balance by instalments; would act as Manager or Assistant with view to succession; replies treated confidentially. 256/38, Office of this Paper.

**WANTED**, Chemist's Business in West of England; must yield at least £500 net profit, and bear strict investigation; privacy guaranteed; bankers' reference if required. 253/25, Office of this Paper.

**WANTED**, sound Business or management with early succession; would consider Drug Store, neglected Business (if neglected through ill-health), or opening; living accommodation; must stand every investigation; one preferred where elderly chemist is retiring, or would manage any period pending retirement; distance no object; North preferred. To facilitate early purchase please give full particulars to Daykin, Chemist, Holsworthy, Devon.

**WANTED** for cash, small Country Business. Particulars, in confidence, P.C.B. 70/25, Office of this Paper.

## PARTNERSHIPS.

**ADVERTISER**, experienced Salesman, good organising ability, practical manufacturing knowledge gained with reputed Manufacturing Chemists specialising Essences, Essential Oils, Colourings, Edible Oils, Culinary Requisites used by Mineral Water Makers, Confectioners, Soda Fountain Owners, Drysalts, etc., seeks responsible position with firm wishing develop similar business; willing introduce capital. 254/9, Office of this Paper.

**M.P.S.**, 39, desires Working Partnership or Managership with view to succession in good-class Pharmacy; Birmingham district; small capital. 255/19, Office of this Paper.

## AGENCIES.

**SCOTLAND**.—Agent, resident Glasgow, first-class connection Chemists throughout Scotland, 6 years' standing, wishes additional non-competitive lines; presently Tablets and Pills; commission basis; references. 239/12, Office of this Paper.

**A FIRM** of Manufacturing Chemists are desirous of accepting an Agency for the Wholesale distribution in South-East London of goods sold by chemists. 255/22, Office of this Paper.

**AGENTS** wanted for Potteries and Birmingham area for established Packed Line; good commission. State particulars. 77/557, Office of this Paper.

**LARGE** Manufacturers of Leather and Canvas Camera Cases require active Agents to represent them in various parts of the country; commission will be paid on all orders received from the ground, and the agency offers considerable scope to one having a connection amongst Chemists and Druggists. 77/553, Office of this Paper.

**MAN** wanted, with thorough knowledge of Wax Trade, to work Agency. Write, stating full particulars, to "W.T.138," c/o Deacon's Advertising Agency, Fenchurch Avenue, E.C.3.

## PREMISES TO LET.

**LONDON BRIDGE**, Southwark, Tower Bridge, and immediate districts.—Modern factories and Warehouses to let, areas from 8,000 to 50,000 ft.; suit all classes of trades. Apply Leopold Farmer & Sons, Factory Specialists and Surveyors, 46 Gresham Street, E.C.

**SHOP** to Let, ideal position for Chemist, St. Martin's Court, 5 Charing Cross Road; low rent. Full particulars, 'phone Mayfair 4446

**TWO** large and light Shops, with ample storage accommodation, at High Street, Sydenham, to be Let; no premium; rent, on lease, very moderate; suitable Chemist or similar live trade. Particulars from Fidler, Staple House, 51-52 Chancery Lane, W.C.2.

## SITUATIONS OPEN.

### RETAIL.

#### [HOME.]

**BIRMINGHAM**.—Juniors (male) wanted; must have had good Dispensing experience and knowledge of Photography. Apply, stating salary required, previous experience, and when disengaged, to Izon, 86 High Street, Aston, Birmingham.

**BRISTOL**.—Wanted, Junior Assistant or Improver. State reference, experience, and salary required. 255/32, Office of this Paper.

**CROYDON**.—Assistant, used to good-class Dispensing business, careful, accurate, and of good appearance. State full particulars in first letter and enclose photo. Vincent & Co., 302 Lower Addiscombe Road, Croydon.

**DURHAM COUNTY** (near Newcastle-on-Tyne).—Capable Junior Assistant wanted; Light Retail and Dispensing experience necessary. Particulars giving age, experience and salary required to Box 256/36, Office of this Paper.

**FOLKESTONE**.—Junior Assistant wanted, to live in; good Counterman, with some knowledge of Optics and Photography. State age and salary required; give particulars of previous experience and references. Stainer, Pharmaceutical Chemist, Folkestone.

**LEEDS**.—Unqualified Assistant, about 30; smart Dispenser and Counterman; good references essential; permanency for one not afraid of hard work. Applications not answered in seven days respectfully declined with thanks. Moore, 43 Domestic Street, Leeds.

**LEICESTER ROYAL INFIRMARY**.—Dispenser (male) required, to take up duties about February 6; commencing salary £200 per annum. Candidates, who must hold the Minor qualification, should forward applications, together with copies of testimonials, to the House Governor and Secretary at the Infirmary.

**LIVERPOOL DISTRICT**.—Assistant, qualified preferred, age not over 35, required for Cash Retail, N.H.I. Dispensing and Photographic business; must be thoroughly reliable and competent; undeniable references essential; permanency for suitable man. Full details of experience, age, height, etc., photo if possible, to 253/24, Office of this Paper.

**LONDON**.—Unqualified Assistant (male), about 22, required in good-class Dispensing Business. Apply, giving particulars of experience, etc., to W. S. Rogers, R. Hogg & Son, 1 Southwick Street, Hyde Park, W.2.

**LONDON**.—Wanted, a young qualified Assistant, also Junior (male or female), for North and N.W. districts; must be good Counter-hands and have knowledge of Photography. Apply, with full particulars of experience, stating age and salary required in first letter, to 256/21, Office of this Paper.

**LONDON, E.10**.—Wanted, qualified lady Chemist to manage small concern; permanency; no Sunday or holiday duty; weekly half-holiday. Apply, stating age, experience, and salary required, references, photo (if possible), 251/8, Office of this Paper.

**LONDON, S.E.**—Elderly, qualified gentleman required immediately as Cover; easy berth; good remuneration. 256/17, Office of this Paper.

**LONDON, S.W.** (Wandsworth).—Unqualified Assistant (male), under 30, for quick cash business with N.H.I.; good prospects for capable young man not afraid of work. State age, height, details of experience and salary required. 246/16, Office of this Paper.

**LONDON, S.W. SUBURB**.—Experienced Assistant (qualified) by February 15 for a good-class Dispensing and Family business; must be a good Window-dresser and well up in Photographic business; view to entire management. Apply, with full particulars, to 255/21, Office of this Paper.

**LONDON, W.**—Young, Qualified Assistant (male), good personality and accustomed to high-class Dispensing Business, required February 22. Full particulars to P. H. Hall, 13 Clifton Road, Maida Vale, W.9.



**MANCHESTER.**—Qualified Assistant (male), over 30, chiefly Dispensing, for three months; working-class district. Please give full particulars, age, height, experience, salary required (outdoors). Applications not answered in three days respectfully declined. Wall, Pharmacist, 221 Chester Road, Manchester.

**MARGATE.**—Wanted, a gentlemanly Assistant, about 25, with good Retail and Dispensing experience. State particulars of last two engagements, when at liberty, with age, height, and salary required (outdoors), to James Hewlett, c/o J. Baily & Co., 2 Ethelbert Terrace, Margate.

#### METROPOLITAN ASYLUMS BOARD.

**A** PPLICATIONS are invited from Dispensers for appointment at the following Hospitals:—  
High Wood Hospital for Children, Brentwood, Essex;  
Grove Park Hospital, Lee, London, S.E.12;  
Pinewood, Wokingham, Berkshire.

Salary £227 per annum, rising by annual increments to £292 per annum. Candidates must be licentiates of the Society of Apothecaries, or possess the Major or Minor Certificate of the Pharmaceutical Society. The persons appointed will be required to carry out, in addition to Dispensing, certain Bacteriological work, training in which will be given by the Board.

Application Forms may be obtained direct from the Clerk to the Metropolitan Asylums Board, Victoria Embankment, E.C.4.

G. A. POWELL,

Clerk to the Board.

**SHEFFIELD.**—Qualified Assistant; outdoor; 25-30; good general experience; hours 9-7, Thursdays 1 p.m.; usual particulars, references, and salary required. 254/12, Office of this Paper.

**TUNBRIDGE WELLS.**—Capable and willing Unqualified Assistant wanted, with good Dispensing experience. Apply, with full details of age and experience, stating salary required and when at liberty, to "A. E. H.," c/o Sells & Son, 25 Grosvenor Road, Tunbridge Wells.

**WOLVERHAMPTON.**—Required, young qualified Chemist (male) for Dispensing Counter; permanency, with prospects of branch management. Apply, giving usual particulars, Martyns, Ltd., Chemists, Wolverhampton.

**A** N Assistant required for good-class Dispensing and Retail; good Dispensing experience essential; male; not under 25. Please state age, experience, references, and salary required. Stevens, Pharmacist, 58 Heath Street, Hampstead, N.W.3.

**A** N Apprentice wanted, age about 15, good opening in a West-End Pharmacy. 255/24, Office of this Paper.

**A** SSISTANT wanted (male), mainly for the Front Counter, of good appearance, quick and accurate; used to high-class Retail and Dispensing business, Photography. State salary (outdoors) and enclose photograph to H. R. Browne, 1 Cornfield Road, Eastbourne.

**D** ISPENSER (male), under 25, recently qualified, required to assist in Dispensary; hours 9 to 5, Saturdays 9 to 2, alternate Sunday duty 10 to 3; dinner daily. Write, stating age, qualifications and experience, to Medical Superintendent, Springfield Mental Hospital, Tooting, S.W.17. Salary commences at £4 4s. per week. Appointment will be subject to provisions of Asylums Officers' Superannuation Act, 1909.

**L** ADY Dispensers requiring posts with Doctors, write for terms, enclosing stamped addressed envelope (letters only); state qualifications. Dispensers' Bureau, 145 Shaftesbury Avenue, London, W.C.2.

**L** ADY Dispenser (Hall Certificate) required for Chelmsford district; Counter experience an advantage. Full particulars and photograph to Parkes Chemists, Ltd., 65 Harwood Street, N.W.1.

**L** ADY Dispenser-Assistant, qualified, for Light Retail business; outdoors. Apply, with full particulars of experience, salary required, and when disengaged, in first letter, to 256/26, Office of this Paper.

**L** ADIES (two) required, one as Assistant, unqualified, chiefly for Counter; ability to Dispense an advantage; smart appearance and Salesmanship essential; the other, an unusually good Window-dresser. Full particulars to 256/29, Office of this Paper.

**L** EWIS & BURROWS have a vacancy for competent unqualified Assistant (male), accustomed to quick medium-class trade; experienced Dispenser. Apply 146 Holborn Bars, E.C.

**L** ONDON Manager required; must be accustomed to good-class Family business; attractive Window-dresser and Salesman. Apply, with full particulars, to 77/564, Office of this Paper.

**Q** UALIFIED Manager wanted, February 8, for Retail and N.H.I. branch business in Midland manufacturing town; salary and liberal commission on increase; living accommodation (6-roomed house); permanency for suitable man. Reply, giving references, age, height, etc., and enclosing photo if possible (returnable), to 252/31, Office of this Paper.

**Q** UALIFIED Assistant; West Riding, Yorks.; used to quick Retail trade. Write, stating age, experience, and salary required, to 250/39, Office of this Paper.

**Q** UALIFIED Assistant wanted at once; Counter and N.H.I. Full particulars to R. E. Baldry, 330 Portobello Road, W.10.

**Q** UALIFIED Assistant, lady or gent., for Dispensing, Counter and Window-dressing. Apply with full particulars, salary required, etc., to Smith, 61 Strond Green Road, Finsbury Park, London, N.4.

**Q** UALIFIED Assistant urgently. Full particulars and salary required to J. Bates, Dunmore House, New Road, Willenhall, Staffs.

**Q** UALIFIED Assistant for Cash Retail, N.H.I., and with knowledge of Photography. Apply, stating age, height, salary required and references, to Arnett & Co., Chemists, 317 Lillie Road, Fulham, S.W.6.

**Q** UALIFIED Manager wanted for Nottingham district at once; must be abstainer and have excellent references. State wage, age, and if married. 254/5, Office of this Paper.

**R** EQUIRED, thoroughly experienced qualified man, age 28 to 30, for progressive and permanent post at Morley, Yorks.; also qualified Junior, 21 or 22; men accustomed to West Riding preferred; Rexall and Kodak an advantage. Apply S. A. Sheard, M.P.S., "Lythemore," Woodlands Drive, Harrogate.

**R** EQUIRED, energetic Counter Salesman, over 30 years of age, for Drug and Hygienic Stores, West of England; state salary. Reply "M.," 254/25, Office of this Paper.

**S** MART, energetic Assistant; must be good Counterman and Window-dresser; not over 50. Apply, with full particulars, to 77/565, Office of this Paper.

**U** NQUALIFIED Assistant for mixed business in country town to keep books and assist at Counter; must have knowledge of Drug trade and undeniable references; would suit active, elderly man desiring permanency; easy hours; no Sunday or extra duty. Apply, stating salary and all particulars, 252/19, Office of this Paper.

**W** ANTED, immediately, lady Dispenser (trained), also to keep books and Panel records; wages £3. Apply Dr. Norman, Ash Grove, Knottingley, Yorks.

**W** ANTED, qualified Dispenser (male or lady). State age, experience, references, and salary required. Drs. Chamberlain, Wallis & Fisher, 63 Sheen Lane, Mordlake, S.W.14.

**W** ANTED, at once, smart Junior unqualified Assistant (20-25 years old) with sound Photographic experience. Please state salary required and enclose photograph to L. H. Lester, The Rexall Pharmacy, Bridge Street, Nuneaton.

**W** ANTED, energetic Counterman for Light General Retail; unqualified; age between 25 and 35. In reply please give all usual particulars. 254/8, Office of this Paper.

**W** ANTED, immediately, qualified Assistant, used to high-class Retail and Dispensing business. Cousins, Thomas & Sons, 63 Banbury Road, Oxford.

**W** ANTED, at once, young ladies for Office work in London; must have had good general Retail experience, able to read prescriptions and be quick at figures; interview necessary. Reply, giving full particulars as to age and experience, to 256/34, Office of this Paper.

#### WHOLESALE.

**A** LONDON firm, proprietors of well-introduced Pharmaceutical Product, require the services of a Representative, with established connections in the Midland Counties, to interview Medical Practitioners and Dentists and to call upon the Wholesale and Retail trade; a pharmacist experienced as a representative in similar capacity is preferred; a knowledge of therapeutics is essential. Applications, in writing, should state permanent home address, age, height, salary required, and particulars of previous experience, which will be accepted as strictly confidential. Address "Alpha," 76/535, Office of this Paper.

**A** VACANCY occurs for a Junior in the Sales Department of a London Wholesale House; applicant must be qualified, and must be prepared to be sent out as Representative if and when required. State age and experience, giving full particulars of education and training, to 77/561, Office of this Paper.

**A** N important Manufacturing House requires the services of a young first-class Representative, mainly for propaganda work among Doctors, Dentists, Institutions, and Chemists in the cities and more important towns of Scotland and Ireland. Pharmacist preferred, well up in the chemistry of synthetic remedies, and with some medical education or interests; must be of good address, tactful, enthusiastic, and conscientious; salary and expenses. Write, giving fullest particulars of experience, age, height, education, and salary required (in strict confidence), to 77/560, Office of this Paper.

**D** RUG TRADE. — Representative, with good connection, required by East Coast established Provincial House for West of Scotland. Experience, age and full particulars to 77/562, Office of this Paper.

**E** SSENCEs AND ESSENTIAL OILS IN IRELAND.—Young man wanted as Representative; should have some training in Chemistry, and preferably a connection among Manufacturing Confectioners, Aerated Water Manufacturers, etc. Apply White, Tomkins & Conrage, Ltd., Reigate.

**O** LIVE OIL, Bath Ammonia, and Essential Oils.—Importers and Manufacturers require Representatives calling on Chemists in London, Home Counties, West of England, and Wales; 10% commission; high-grade articles and competitive prices. 77/567, Office of this Paper.

**P** ILL MAKER; preference to one able to pearl coat; capable of turning out small lots promptly. State experience and wages to 241/15, Office of this Paper.

**R** EPRESENTATIVE required by London Wholesale Druggists for London and suburbs; one with connection among Medical Practitioners preferred. "Rheum," 76/529, Office of this Paper.

**R** EPRESENTATIVE required, one having a good connection amongst first-class Chemists and already representing another house, to carry additional lines; small samples; good commission offered. Full particulars, age, ground covered, etc., "B. H." (P.C.B. 70/38), Office of this Paper.



**R**EPRESENTATIVES wanted in the following territories to introduce the most attractive and popular Proprietary Perfumery Series issued for many years. A grand opportunity is open to men of high standing and established connections to handle this proposition on liberal commission terms. Territories vacant: Midlands; Kent, Surrey, Sussex; Eastern Counties; Scotland and North England. Write full particulars as to territory, frequency of calls, details of connection, in strict confidence, to 77/563, Office of this Paper.

**S**ALES MEN required, with good Chemist connection, for (a) London and Home Counties. (b) Manchester and Lancashire, for speciality and range of Toilettry and Perfumery. Please state itinerary, sales records, age and terms to "Prescription," Western Sales Agency, 53 Queen's Road, Bristol.

**S**UPERVISOR to take charge of Finishing Department (Perfumes and Creams) in high-class Manufacturing Perfumery House; must be capable disciplinarian, scrupulous in supervision of detail, and able to stimulate output. Applications for this responsible and progressively well-paid position must include full particulars of experience, remuneration asked, and age, and be addressed to 77/559, Office of this Paper.

**T**ABLET Hand required; good, all-round man; state if able to do Sugar Coating. References and wages to 241/150, Office of this Paper.

**T**RAVELLERS calling on Chemists in London, Southern, Eastern and Midland Counties, S. Wales and Scotland required, to sell a small Proprietary as extra line; good commission. Reply, stating ground covered and firms represented, to 77/546, Office of this Paper.

**W**ANTED, at once, an energetic Representative with a good connection amongst Doctors and Chemists in the North of England to introduce a Food for Infants and Invalids manufactured by an old-established British house. Applicants should not exceed 35 years of age, and should give full particulars of experience, which will be treated in confidence. Write "T. K.," c/o Streets, 6 Gracechurch Street, E.C.3.

**W**ANTED, Travellers, London and provinces, to carry series of Toilet Preparations as side line; easy sellers; good commission. 254/38, Office of this Paper.

**W**ELL-KNOWN London Wholesale House requires the services of a man experienced in the production of up-to-date Packed Toilet and Medicinal Specialities; must be able to draft matter for labels, cartons, outers, etc., and have knowledge of modern methods of marketing. Applications will be considered only from those giving full particulars of experience (which will be treated confidentially), salary required, etc. Address "Progress," c/o Brockio, Haslam & Co., 23 Fleet Street, E.C.4.

### [COLONIAL, INDIAN AND FOREIGN.]

**M**ENTONE.—Assistant wanted for Mentone; 800 frs. per month; 350 frs. travelling expenses; 5% on sundries and house specialities; one day free weekly; hours 8 to 8, two hours lunch interval; season until April 15. Write Curtil, Phicien, Mentone, Av. de Sospel. Enclose testimonials.

**S**AN REMO (ITALIAN RIVIERA).—Young English Assistant required, January 20-April 20; salary L. It. 1200.00 per month; second class fare paid out and home. Apply, giving full particulars of experience and training, to "Parilond," 76 New Bond Street, W.1.

## SITUATIONS WANTED.

### RETAIL.

#### [HOME.]

**A.A.A.**—UNQUALIFIED, 30, desires permanency; first-class West-End experience, Counter, Dispensing, Photo, Practipredicts; capable of taking full control. "F. W.," 162 Whitecross Street, E.C.1.

**A.A.**—LADY; qualified; tall; 23; temporary or permanent post; first-class Dispensing and Counter experience; London. "D. S.," 105 St. Leonard's Road, S.W.14.

**A.A.**—UNQUALIFIED; tall; 24; 8 years' experience, Dispensing and Counter; Kingston and Richmond district. "L. S.," 21 Brunswick Road, Kingston, Surrey.

**A.A.**—UNQUALIFIED Assistant; 29; tall; excellent experience in all branches; Photography; commence immediately; well recommended; position in busy Pharmacy preferred; London or provinces. Douglas, 2 Fieldway, Haslemere, Surrey.

**A** PHARMACIST (Major), 30, all-round experience in London, wishes Manager's job worth about £7 a week to start (including commission). 256/18, Office of this Paper.

**A** S Junior, in Liverpool or Manchester preferred, where opportunity would be given to attend part-time classes for Part I; highly recommended. Hughes, 28 Llyn Street, Pwllheli.

**A** SSISTANT, 26, requires position in good-class Pharmacy; experienced in Dispensing, Counter and Photography; excellent references; interview at any time. "Miss C.," 153 York Road, Woking.

**A** SSISTANT, unqualified, thorough all-round experience, desires permanency; capable take charge or branch. "Statim," 53 Cantelupe Road, East Grinstead.

**A** SSISTANT; unqualified; experienced; Dispensing, Window-dressing, Counter, Photo.; good reference; would manage Drug Store with view to purchase. P.C.B. 69/29, Office of this Paper.

**A** SSISTANT, 20; unqualified; tall; over 3 years' Dispensing and Counter experience; London, Liverpool or Manchester preferred; references. Hodges, 61 Ellesmere Road, Shrewsbury.

**A** SSISTANT, Locum or permanent; good Dispenser, Counter-man, etc.; disengaged; excellent references. Hobbs, 4 Woodville Gardens, Golders Green, N.W.11.

**A** SSISTANT, 21; London or suburbs; Dispensing, Photographic and Counter experience; excellent references. A. Amies, 116 Edenbridge Road, Enfield.

**A** SSISTANT; many years' good-class experience; at present engaged part-time; excellent references. Smith, 4 Brunswick Road, Kingston Hill, Surrey.

**A** SSISTANT, 34; unqualified; excellent all-round London experience; all branches, Photographic, etc.; up-to-date, enterprising; Window-dressing a special study; energetic and conscientious; permanency desired; 6 years last situation; London or suburbs. 255/39, Office of this Paper.

**A** SSISTANT, unqualified, 25, Window-dressing, Dispensing and Counter (a speciality); keen, reliable, energetic, used to good-class business; in or near London; disengaged February. 255/25, Office of this Paper.

**A** SSISTANT, unqualified, 24, 9 years' experience Counter, Dispensing, Photography and Window-dressing; South preferred. 255/7, Office of this Paper.

**B**OOKKEEPING, etc.; evening work; disengaged after 6 p.m.; terms moderate. Reply "X Y Z," 221/17, Office of this Paper.

**C**OMPETENT unqualified Assistant; experienced in Dispensing, Counter, Stock, Photography, Prescribing; Wales preferred; trustworthy. Harries, 16 Brixton Road, S.W.9.

**C**OMPETENT Junior, 20, five years' first-class experience, Dispensing and Counter, desires situation, London or Birmingham district. Hughes, 28 Eastcombe Avenue, Charlton, London.

**D**ISENGAGED January 16, young lady Dispenser, Book-keeper, care of Surgery, Instruments, Panel records; drive car; excellent testimonials. McCord, c/o Dr. Nicholson, Downview Road, Worthing.

**D**ISENGAGED; qualified, experienced Pharmacist; middle-aged; active; rapid Dispenser; Locum (permanency London). Statim; 27 Blackstock Road, N.4.

**D**ISPENSER-BOOK-KEEPER (Hall) desires post with Doctor; experienced. Miss Postlethwaite, "Craignair," Bowden Road, Swinton, Manchester.

**E**NGAGEMENT; considerable varied experience, including Manager's; trustworthy, conscientious; part time; Locum entertained; recommended. "Chemicus," 79 Cecil Street, Manchester, S.

**E**LDERLY, Qualified, desires employment with short hours or part-time; outdoors. Baker, 3 Radford Road, West Hoe, Plymouth.

**E**LDERLY Pharmacist, active, seeks post; North-East Lancashire preferred (not essential). Brown, 57 Glynn Street, Farnworth, Lancs.

**E**XPERIENCED Dispenser and Prescriber; unqualified; accustomed take charge; 17 years in one post in West-End; all-round man; moderate salary. "Spero," 390 Clapham Road, S.W.9.

**E**XPERIENCED, energetic Assistant, tall, 38, unqualified, married, London only, seeks good permanency. "Primus," 23 Doughty Street, Holborn, W.C.1.

**E**XPERIENCED Lady, Dispensing, Book-keeping, Counter, including West-End full routine, seeks position of trust. 256/13, Office of this Paper.

**E**X-SERVICE man, 34, disabled leg, desires post as Junior; Counter and Book-keeping; country preferred; small salary. Hobson, 9 Wakefield Street, Hull.

**I**MEDIATELY; qualified, 25, married, energetic and willing to work hard, good experience; Assistant or Manager; salary £4 10s. to commence; disengaged. "Chemicus," 29 Stoke Road, Shelton, Stoke-on-Trent.

**I**MPROVER or Junior, Scotch, age 18½, good Dispenser, disengaged. Stalker, 18 Ochil Street, Tillicoultry, Clackmannanshire.

**I**MPROVER; young; London and suburbs only; good experience in Counter and Window-dressing, with some knowledge of Photography and N.H.I. Dispensing. Mack, 33 Croydon Road, Penge, S.E.20.

**J**UNIOR Assistant; experienced in D. and P.; willing to help at Counter or Warehouse; age 19; height 5 ft. 8 in. Davey, East Street, Torrington, Devon.

**J**UNIOR, 21, desires situation; quick Counter trade experience; tall; good references. Rawlinson, Manley Gardens, Briggs, Lines.

**J**UNIOR; 20; used to good-class Dispensing business; accurate Dispenser, conscientious worker, good Salesman and Window-dresser; Manchester district preferred. 254/36, Office of this Paper.

**J**UNIOR (20); good-class experience, Dispensing, Counter, Photographic; highest reference. Willoughby, Polgoth, St. Austell.

**L**ADY Dispenser-Book-keeper (Hall) requires post. Jones, "Glanden," Hurlingham Gardens, London, S.W.6.



**LADY**, qualified (24), desires post; Dispensing and Counter work experience. P.C.B. 68/23, Office of this Paper.

**LADY**, 24, unqualified, requires post; Dispensing and Counter; temporary or permanent. P.C.B. 68/22, Office of this Paper.

**LADY** Dispenser seeks post shortly; 4 years' experience Doctor's surgery; South Coast preferred. Apply "L. B.," 173 Windham Road, Bournemouth.

**LADY**, unqualified; Counter, Dispensing, etc.; 8 years' experience. Miss Farrer, Snape, Saxmundham, Suffolk.

**LADY** Assistant, 23, referred one subject Part II (Minor), requires Dispensing experience, part-time, in high-class Dispensing business (not N.H.I.), for a few months. "Sigma," 253/34, Office of this Paper.

**LADY** Dispenser, qualified, experienced, requires post, full or part-time; Hospital or Doctor preferred. 254/22, Office of this Paper.

**LIVERPOOL DISTRICT**.—Qualified, 36, tall, 20 years' all-round high-class and Store, desires change; present Branch Manager; abstainer; reliable. 254/23, Office of this Paper.

**LOCUM** or part-time or view purchase; long experience all branches. "M.P.S.," 1 Dapdune Crescent, Guildford.

**LOCUM** or part-time engagement; thoroughly experienced and reliable; highest references; disengaged. 255/16, Office of this Paper.

**M.P.S.** (lady), faced with uncertain conditions, 4½ years' experience Medical and Retail Dispensing in good active positions, desires change as Dispenser in high-class live business establishment or hospital; excellent testimonials; good appearance, strong, healthy, willing; preferably North Country. 252/20, Office of this Paper.

**M.P.S.**, YOUNG, tall, desiring to improve his position, would like post in Preston district. Apply 254/10, Office of this Paper.

**PART-TIME** required, 3 or 4 evenings weekly; West-End preferred; good references and experience. Dickinson, 17 Bloomsbury Square.

**QUALIFIED**; age 48; extensive knowledge in Dispensing. Veterinary requirements, Prescribing and Photography. Reply 248/2, Office of this Paper.

**QUALIFIED** Manager; elderly; active, not afraid work; registered Dentist; terms moderate. "Alfa," c/o Vincent, 103 Bristol Street, Birmingham.

**QUALIFIED** lady, Scot, 22 years, 5 ft. 9 in., wishes change; good experience and references; West-End preferred; full particulars. Apply 255/38, Office of this Paper.

**QUALIFIED**, 7 years' experience, 12 months managing, desires similar position; used to quick Counter and Dispensing; disengaged February 1. Thomas, 34 Preston Avenue, Newport, Mon.

**QUALIFIED** (27), 8 years' experience, Counter, Dispensing, Photographics, good Window-dresser, seeks situation; Warwickshire preferred, but not essential. Jones, 197 Ladywood Road, Birmingham.

**QUALIFIED**; 32; West-End and provincial experience; £4; temporary or permanent; disengaged. Cohen, 16 Cambridge Street, W.2.

**QUALIFIED** Manager; whole or part-time; Cover; disengaged; elderly, but very active. Warrington, 17 Hatherley Gardens, East Ham, E.6.

**QUALIFIED**, 5 years last position as Manager, desires re-engagement; any locality; exceptional Prescribing experience. "W. J. L.," 23 Cautley Avenue, London, S.W.4.

**QUALIFIED**; first-class West-End and Continental experience; Counter, Dispensing, Photography; part-time preferred. P.C.B. 70/181, Office of this Paper.

**QUALIFIED**, 25, desires post as Manager or Assistant; good-class, all-round experience, including Photography; London preferred. 255/1, Office of this Paper.

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